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IN THE BRAIN SCIENCES

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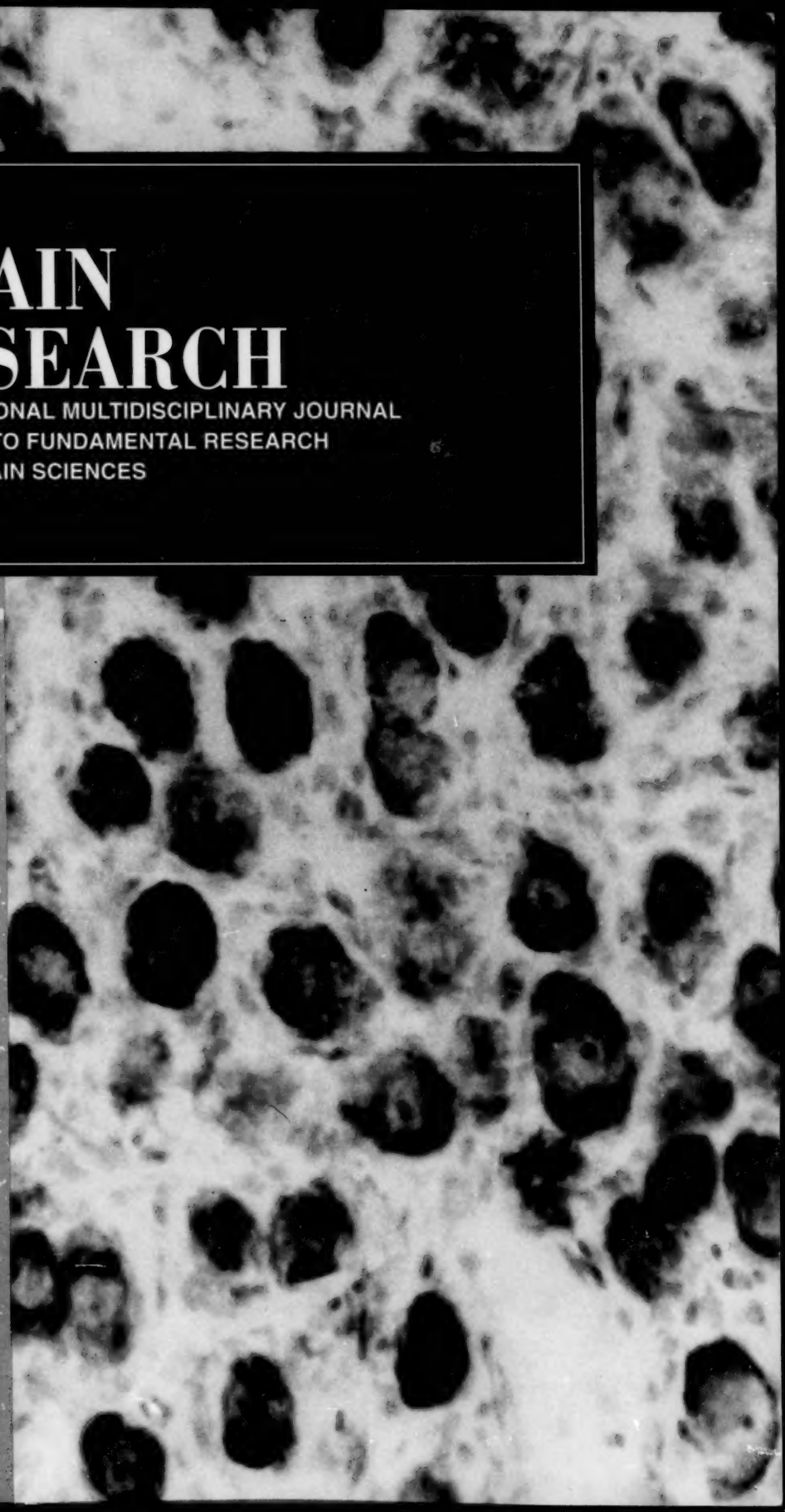

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The 1994 Cumulative Autor and Subject Index comprises 8 separate indexes: the Author and Subject Indexes of **Brain Research, Developmental Brain Research, Molecular Brain Research** and **Brain Research Reviews.** Each section had its own volume numbering according to the schedule below. This numbering has been used in the present indexes.

BRAIN RESEARCH (1994) Volumes				
Brain Research Vols. 633–668	**Developmental Brain Research Vols. 77–83**	**Molecular Brain Research Vols. 21–27**	**Brain Research Reviews Vol. 19**	**Cognitive Brain Research**

Please note that the above schedule differs slightly from the 1994 publication schedule:

Volume 20 of **Molecular Brain Research** was published in 1993 and has been indexed in the 1993 index. Volumes 26 and 27 belong to the 1995 subscription year but were published in 1994 and have been indexed in the present index.

Volume 3 of **Cognitive Brain Research** has not been indexed in the present index as its publication has been delayed. The same applies to Volume 2 (belonging to the 1993 subscription year).

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Axoplasmic transport; Neurotransmitter; Superior cervical ganglion cell; Organelle motion; Axonal transport regulation; Potentiation (Takenaka, T. (643) 81)

Nucleus tractus solitarii; Substantia innominata; Rostral ventrolateral medulla; Calbindin D-28k (Granata, A.R. (645) 265)

Nucleus tractus solitarii; NPY(1–36); Neuropeptide Y_1 receptor agonist; Neuropeptide Y_2 receptor agonist; Clonidine; Receptor autoradiography; Cardiovascular control (Yang, S.-N. (654) 137)

Dopamine; Estradiol; Hypothalamus; Luteinizing hormone; Luteinizing hormone-releasing hormone; Neuropeptide Y; Noradrenaline; Progesterone; Prolactin; Sexual differentiation (Crowley, W.R. (663) 257)

Adrenal medulla
Neural transplantation; MPTP; Peripheral nerve; Cograft; Nerve growth factor (NGF); Parkinson's disease (Date, I. (637) 50)

Glucose uptake; Skeletal muscle; Sympathetic nerve; Guanethidine; Ventromedial hypothalamic nucleus (Minokoshi, Y. (649) 343)

Neuropeptide K; Hypothalamo-pituitary-adrenal axis; Steroidogenesis; Adrenal cortex; Rat (Mazzocchi, G. (661) 91)

Adrenal steroid
Adrenalectomy; Spatial memory; Radial arm maze; Dentate gyrus; Corticosterone (Vaher, P.R. (656) 71)

Adrenergic
Antidepressant; Tumor necrosis factor; Hippocampus; Locus coeruleus; Brain (Ignatowski, T.A. (665) 293)

α_2-Adrenergic
Cholecystokinin; Dexmedetomidine; μ Opioid; Cholecystokinin-B antagonist; L365,260; PD135158; Spinal; Antinociception (Sullivan, A.F. (662) 141)

Adrenergic blocking drug
HPA axis; Morphine; Hypothalamus; Catecholamine; Reserpine (Martinez-Piñero, M.G. (668) 122)

Adrenergic cell
Serotonergic cell; Catecholaminergic autoreceptor; Central autonomic pathway; Vasomotor regulation; Blood pressure; Bulbospinal pre-sympathetic neuron; Clonidine; CNS acting sympatholytic drug (Guyenet, P.G. (638) 285)

Adrenergic fiber
Autonomic nervous system; Catecholamine; Histamine; Medulla oblongata; Pancreas; Parasympathetic nervous system; Pseudorabies virus; Raphe nucleus; Serotonin; Vagus nerve; Viral transneuronal labeling (Loewy, A.D. (638) 248)

Adrenergic receptor
Water intake; Fluid balance; Electrolyte balance; AV3V region (Bastos, R. (636) 81)

NMDA; GnRH gene expression; Hypothalamus (Suh, J. (645) 36)

α-Adrenoceptor
Cholinergic septo-hippocampal system; High-affinity choline uptake; Noradrenergic drug; Transsynaptic modulation; Mouse (Marighetto, A. (652) 120)

α_2-Adrenoceptor
Substance P; Guanabenz; Neuromodulation; Nucleus reticularis gigantocellularis; Rat (Len, W.-B. (638) 227)

Substance P; Norepinephrine; Guanabenz; Nucleus reticularis gigantocellularis; Microdialysis; Rat (Tsou, M.-Y. (653) 183)

β-Adrenoceptor
Isoproterenol; Drinking; Hypotension; Renin–angiotensin system (Kirby, R.F. (656) 79)

Corticotropin-releasing factor; Cytokine; Dexamethasone; Forskolin; Isoproterenol; Glucocorticoid; Somatostatin (Takao, T. (656) 177)

Chronic morphine; Morphine withdrawal; Ca^{2+}-activated potassium afterhyperpolarization; Pyramidal neuron; Hippocampal slice (Ackerman, J.M. (656) 309)

Adrenocorticotropic hormone
Brain; Melanocortin; Neuropeptide receptor; α-Melanocyte-stimulating hormone; Lacrimal gland; Melanoma; Rat (Tatro, J.B. (635) 148)

Adaptation; Chronic stress; Catecholamine; DOPAC; Corticosterone; Glucose (Lachuer, J. (638) 196)

Interleukin-1 receptor; Corticosterone; Lipopolysaccharide; Hypothalamic-

pituitary-adrenal axis; Mouse (Takao, T. (649) 265)

Fever; Endotoxin; Prostaglandin (Watanabe, T. (652) 201)

Adrenocorticotropin
Neuromuscular transmission; Quantal release; Endplate potential; Acetylcholine (Davies, D.A. (637) 328)

Growth hormone; Hypothalamus; Monoamine; Neostigmine; Rat (Gotoh, M. (659) 259)

Adrenocorticotropin hormone
Corticotropin-releasing factor; Interleukin-1β; Dopamine; NMDA receptor; Behavioral sensitization (Torres, G. (656) 33)

Adrenomedullary catecholamine
Adrenalectomy; Opioid analgesia; Non-opioid analgesia; Corticosterone; Adrenomedullary enkephalin; Permissive effect; Chlorisondamine; Naltrexone (Sutton, L.C. (663) 19)

Adrenomedullary enkephalin
Adrenalectomy; Opioid analgesia; Non-opioid analgesia; Corticosterone; Adrenomedullary catecholamine; Permissive effect; Chlorisondamine; Naltrexone (Sutton, L.C. (663) 19)

Adult
Sensorimotor reaction; Orbicularis oris; Active force dynamics; Mechanical stimulation; Skin contactor; Electromyography (Andreatta, R.D. (646) 175)

Autoradiography; Development; Respiration; Receptor; Sheep; Fetus; Newborn; Birth (Tai, T.-C. (652) 28)

Adult cat
Carotid body; Cell culture; Defined medium; Dopamine; Hypoxia; Immunohistochemistry; Tyrosine hydroxylase (Shirahata, M. (658) 60)

Adult human
Astrogliosis; Cytokine; Interferon; Interleukin; Proliferation; Tumor necrosis factor (Tejada-Berges, T. (653) 297)

Adult rabbit carotid body
Cytosolic Ca^{2+}; Hypercapnic acidosis; Voltage-gated Ca^{2+} channel blocker; D600; Glomus cell (Sato, M. (662) 251)

Advanced glycosylation end product
Pyramidal neuron of different species; Hippocampus (Li, J.J. (641) 285)

AF64A
Septohippocampal system; Cholinergic lesion; Spatial learning and memory; Nerve growth factor receptor; Acetylcholinesterase depletion; Calcium channel blocker (Maier, D.L. (648) 281)

Corticosterone; Septohippocampal cholinergic system; Cholinergic hypofunction; Amine content (Amoroso, D. (661) 9)

Acetylcholinesterase; Butyrylcholinesterase; Differential PCR display; Hippocampus; Reverse transcriptase-PCR; Septum (Lev-Lehman, E. (661) 75)

AF102B
Muscarinic M_1 receptor; Muscarinic M_2 receptor; Pirenzepine; Methoctramine; Hippocampus; Working memory; Reference memory (Ohno, M. (650) 260)

AF-DX 384
Paradoxical sleep deprivation; Rat; Brain muscarinic M_2 receptor; Acetylcholine (Nunes Jr., G.P. (645) 247)

AFDX384
Fluid percussion; Acetylcholine; Pirenzipine; Autoradiography; Hippocampus; Traumatic brain injury; Receptor binding (DeAngelis, M.M. (653) 39)

Afferent activity
Glia; Astrocyte; Plasticity; Visual system; Deprivation (Canady, K.S. (663) 206)

Afferent fiber
Hindpaw; Plantar injection; Mechanical stimulation; Thermal stimulation; Pain (Fukuoka, H. (657) 133)

Afferent pathway
Cutaneous; Development; Fetal; Structure; Function (Rees, S. (661) 207)

Afferent projection
Nodulus; Vestibular nucleus; Cat (Akaogi, K.-i. (638) 12)

Nodulus; Inferior olive; Cat (Akaogi, K.-i. (638) 133)

Afferent synapse
Glycine; NMDA; Kynurenic; Neurotransmitter; Hair cell; Semicircular canal; Inner ear (Soto, E. (633) 289)

Affinity chromatography
Neurotensin; Receptor; Human brain (Zsürger, N. (639) 245)

Afterdischarge
Excitatory amino acid; Hippocampus; Synaptic transmission; Ischemia (Miyazaki, S. (657) 325)

After suppression
Kainate; Microinjection; Nucleus parabrachialis; Respiration; Respiratory depression; Naloxone (Hirano, T. (665) 54)

AgaIVA
FTX; Ca^{2+}-channel; N-channel; Spermine; ω-Conotoxin; P-channel; Binding; MVIIC; GVIA (Lundy, P.M. (643) 204)

Agatoxin
Synapse; P-type calcium channel; Transmitter release; Mossy fiber; Perforant fiber; Hippocampus (Yamamoto, C. (634) 349)

Conotoxin; Glutamate; Hypoglycemia; Hypoxia; Ischemia; *N*-Methyl-D-aspartate; Primary neuronal culture (Koretz, B. (643) 334)

ω-Agatoxin IVA
Cortical wedge; Glutamate; Excitatory amino acid; Calcium channel; ω-Conotoxin GVIA; ω-Conotoxin MVIIC (Robichaud, L.J. (643) 352)

Age
Circadian; Djungarian hamster; Hypothalamus; Immunocytochemistry; Neuropeptide; *Phodopus sungorus*; Rhythm; Photoperiod; Sex; Substance P; Suprachiasmatic nucleus (Reuss, S. (638) 189)

Tetrahydroisoquinoline; 1-Methyl-tetrahydroisoquinoline; Substantia nigra; Striatum (Ayala, A. (638) 334)

Aged rat brain
Choline acetyltransferase; Choline acetyltransferase mRNA; Muscarinic M_1 receptor; Muscarinic M_1-R mRNA; Parallelism; Bifemelane hydrochloride (Ogawa, N. (658) 87)

Ageing
Microvasculature; Substance P; Sciatic nerve; Endothelium; Smooth muscle (Khalil, Z. (641) 265)

Microvasculature; Amyloid peptide; Substance P; SEC-receptor (Khalil, Z. (651) 227)

Aggregation
Alzheimer's disease; Amyloid β-protein; Neurotoxic; Hippocampal cell culture; MTT assay (Ueda, K. (639) 240)

Paired helical filament; Proteolysis; Tau protein; SDS solubility; Immunogold electron microscopy (Ksiezak-Reding, H. (649) 185)

Aggression
Hippocampal mossy fiber distribution; Selection; Mouse (Sluyter, F. (646) 145)

Inbred mouse; Hippocampus; Mossy fiber; Genetic correlation (Guillot, P.-V. (660) 167)

Aggressive behavior
Excitatory amino acid; Midbrain periaqueductal gray; Cat; Amygdala; Glutamate; Aspartate; Defensive rage behavior (Shaikh, M.B. (635) 187)

Aging
Acetyl-L-carnitine; Nerve growth factor; Choline acetyltransferase; Fimbria-fornix transection (Piovesan, P. (633) 77)

α-Tocopherol; Lipofuscin; Free radical; Brain; Rat (Monji, A. (634) 62)

Terminin; Brain; Neuron; Glia (Schipper, H.M. (635) 224)

Neurophysin; Somatic mutation; Hypothalamus; Neurohypophysis (Van Leeuwen, F.W. (635) 328)

Circadian rhythm; Locomotor activity; Arousal (Penev, P.D. (637) 255)

HPLC-chemiluminescence; Phosphatidylcholine hydroperoxide; Hydroxyl radical; Hippocampus; Striatum; Cortex (Zhang, J.-R. (639) 275)

Lysosomal hydrolase; Neurodegenerative disease; Amyloid; Lipofuscin; Senile plaque (Cataldo, A.M. (640) 68)

Noradrenaline; Adrenaline; Immunohistochemistry; Tyrosine hydroxylase; Phenylethanolamine-*N*-methyltransferase; Brainstem; Sprague–Dawley rat (Monji, A. (641) 171)

Intrathecal; Tail flick test; Antinociception; Opioid receptor; Opiate agonist (Crisp, T. (643) 282)

Amyloid β-protein precursor; Purkinje cell (Nakamura, Y. (643) 319)

Graft; Circadian; Rhythm; Activity; Benzodiazepine (Van Reeth, O. (643) 338)

Growth hormone; Adenylyl cyclase; G protein; Growth hormone-releasing hormone; Hypothalamic lesion (Qing, Y. (644) 13)

Brain; Neuron; Central nervous system (Yang, G. (644) 188)

Oxidative phosphorylation; Respiratory complex; Mitochondrion; Brain (Ferrándiz, M.L. (644) 335)

Acetylcholine; Nicotine; Alzheimer's disease; Nicotinic receptor; Nictitating membrane; Learning; Cognition enhancing (Woodruff-Pak, D.S. (645) 309)

Dementia; Free radical; Human brain; Lipid peroxidation; Oxidative stress (Palmer, A.M. (645) 338)

Differentiation; Development; Cytoarchitecture; Glia (Andersson, C. (646) 100)

Naftidrofuryl oxalate; Neurotransmitter; Receptor; Second messenger; Serotonin 5-HT_2 antagonist; Gerbil; Hippocampus (Ban, H. (646) 211)

Retina; Fischer 344 rat; Neural degeneration; Photoreceptor; Peripheral degeneration (DiLoreto Jr., D. (647) 181)

Suprachiasmatic nucleus; Hypothalamus, human; Vasopressin neuron; Circadian rhythm; Biological clock (Hofman, M.A. (651) 134)

Vasopressin; Fos; Supraoptic nucleus; Paraventricular nucleus (Sladek, C.D. (652) 207)

Individual difference; Recognition-memory; Exploration; Y-maze; Rat (Dellu, F. (653) 51)

Vertebrate rod photoreceptor; Transduction; cGMP renewal; Slowing of kinetics; Outer segment (Leibovic, K.N. (653) 325)

Neurotrophic factor; Parkinson's disease; Substantia nigra (Tooyama, I. (656) 165)

Glucocorticoid receptor; Mineralocorticoid receptor; Hippocampus; Spatial learning; mRNA (Yau, J.L.W. (657) 59)

Stress; Hippocampus; Memory; Learning; Radial maze; Water maze; Morphometry (Arbel, I. (657) 227)

Cerebellum; Free radical; Norepinephrine (Gould, T.J. (660) 333)

GABA; Calcium-binding protein; Calbindin; Parvalbumin; Hippocampus (Potier, B. (661) 181)

Basal forebrain; Substantia innominata; Cortical blood flow; Cortical PO_2; Cortical PCO_2; Alzheimer's disease; Fischer 344 rat; Cerebral blood-flow regulation; Helium clearance; Physostigmine; Intrinsic cholinergic innervation (Sercombe, R. (662) 155)

Alzheimer's disease; Muscarinic signal transduction; GTPase (Cutler, R. (664) 54)

Spontaneously hypertensive rat; Immobilization stress; Hypothalamic paraventricular nucleus; Noradrenaline; Intracerebral microdialysis (Terrazzino, S. (668) 256)

Aging of cholinergic system
Acetyl-L-carnitine; Brain aging; Synaptic morphology; Synaptic plasticity; Morphometry; Brain metabolism; Cholinergic synapse (Bertoni-Freddari, C. (656) 359)

AI
Intracortical; Multichannel recording; Primary auditory cortex; Cognitive; Evoked potential; Auditory (Javitt, D.C. (667) 192)

AIDS
Feline immunodeficiency virus; Env glycoprotein; Sleep disturbance (Prospéro-García, O. (659) 254)

AIDS dementia
Mycoplasma; Nitric oxide; Tumor necrosis factor α; Prostaglandin E_2; Glial cell; Dexamethasone; Multiple sclerosis (Brenner, T. (641) 51)

Alamar blue
Brain-derived neurotrophic factor; Calcium; Glucose deprivation; Glutamate; Nerve growth factor (Cheng, B. (650) 331)

Albumin
Calcium current; Neuroblastoma (Schmitt, H. (656) 375)

Alcohol
Purkinje neuron; Development; Calcium current; Fetal alcohol syndrome; Central nervous system; Neuron (Gruol, D.L. (634) 283)

Noradrenaline; Human; Brain; Three-dimensional reconstruction (Arango, V. (650) 1)

Alcohol withdrawal
Genetic model; Seizure; Hippocampus; Calcium current; Whole cell voltage clamp (Perez-Velazquez, J.L. (649) 305)

Aldosterone
Serotonin 5-HT_{1A} receptor; Serotonin 5-HT_2 receptor; Serotonin transporter; Adrenalectomy; RU28362 (Kuroda, Y. (648) 157)

Alerting
Anxiety; Analgesia; Proglumide; CR1409; Cholecystokinin; Pain; Orienting response; Hyperalgesia; Columnar organization (Liu, H. (642) 83)

Alkaloid
Alzheimer's disease; Calcium; Free radical; Fura-2; Neurodegeneration; Neurotrophic factor; Phosphorylation (Goodman, Y. (650) 170)

Alkalosis
Hydrogen ion; pH_i regulation; Glial cell; Leech (Szatkowski, M.S. (665) 1)

Allodynia
Hyperalgesia; Magnesium therapy; Neuropathic pain; Peripheral neuropathy (Xiao, W.-H. (666) 168)

Allograft
Striatal graft; Cell fate; Huntington's disease; Neuronal regeneration; DARPP-32; Calbindin; Acetylcholinesterase; Tyrosine hydroxylase (Deacon, T.W. (668) 211)

Allopregnanolone
Progesterone; Steroid mechanism; Non-genomic; Neuroactivesteroid; Membrane; Tail flick latency; Nociception (Frye, C.A. (643) 194)

Allopurinol
Hypoxia; Brain cell membrane; Lipid peroxidation; Xanthine oxidase; Uric acid; Energy metabolism; ^{31}P-NMR (Marro, P.J. (650) 9)

Allosteric modulator
Ethanol; $GABA_A$ receptor; Patch clamp electrophysiology; Dissociated neuron (Frye, G.D. (635) 283)

Aluminum neurotoxicity
Alzheimer's disease; Neurodegenerative disorder; Iron-binding protein; Lactoferrin; Transferrin (Leveugle, B. (650) 20)

Alz-50
Alzheimer's disease; Human hypothalamus; Senile plaque; Somatostatin; Somatostatin-like (Van de Nes, J.A.P. (655) 97)

Alzheimer's disease
Hippocampus; Immunohistochemistry; Immunoblot; Cytoskeleton; Microtubule (Geddes, J.W. (633) 1)

Nerve growth factor; Nerve growth factor mRNA; Neurotrophin; L929 fibroblast (Saporito, M.S. (633) 189)

Protein kinase C; Reserpine; Rat brain; Western blot (Komachi, H. (634) 127)

Deoxyglucose; Scopolamine; Physostigmine (Blin, J. (635) 196)

Amyloid β-peptide; Acetylcholine release; Microdialysis; Septo-hippocampal pathway (Abe, E. (636) 162)

G-protein; Adenylyl cyclase; Post-mortem human brain; Signal transduction (O'Neill, C. (636) 193)

Dystrophic neurite; Tau; Paired helical filament; Argentophilia; Immunocytochemistry; Neuropathology (Su, J.H. (637) 37)

Hepatocyte growth factor; c-Met protein; Astrocyte; Microglia (Yamada, T. (637) 308)

Biomarker; Ubiquitin; Cerebrospinal fluid; Enzyme-linked immunosorbent assay; ELISA; Competitive enzyme-linked immunoflow assay; CELIFA (Kudo, T. (639) 1)

Microglia; Macrophage colony stimulating factor; Receptor (Akiyama, H. (639) 171)

Glutamate; Excitotoxicity; Receptor; AMPA (Armstrong, D.M. (639) 207)

Amyloid β-protein; Aggregation; Neurotoxic; Hippocampal cell culture; MTT assay (Ueda, K. (639) 240)

Neuron; Lysosome; Dense bodies; Leupeptin; Protease inhibitor; Amyloid precursor protein (Hajimohammadreza, I. (640) 25)

Arecoline; Cerebral blood flow; Cerebral glucose metabolism; Hippocampus; Muscarinic receptor; Rat (Maiese, K. (641) 65)

Cholinergic neuron; Target-derived neurotrophic factor; Nerve growth factor; Neuronal survival (Akaneya, Y. (642) 38)

Neuroblastoma cell; Ca^{2+}-channel; Nimodipine; Amyloid β-peptide; Patch clamp (Davidson, R.M. (643) 324)

Adenylyl cyclase; Hippocampus; Cerebellum; Adenosine A_1-receptor; G protein; Coupling; Signal transduction (Schnecko, A. (644) 291)

Amyloid precursor protein; Cholinesterases; Plaque; Tangle (Geula, C. (644) 327)

Complement; Membrane attack complex; Ultrastructure; Tangle (Itagaki, S. (645) 78)

Acetylcholine; Nicotine; Aging; Nicotinic receptor; Nictitating membrane; Learning; Cognition enhancing (Woodruff-Pak, D.S. (645) 309)

Choline; β-Amyloid; Carrier; Leakage; Acetylcholine; Brain; Neuron; PC12 cell (Galdzicki, Z. (646) 332)

Striatum; Tangle; Plaque; Limbic system; Ventral striatum (Selden, N. (648) 327)

Metallothionein; Growth inhibitory factor; Neurotrophic factor; Cortical neuron culture; MT-III, recombinant; Cadmium exchange assay; Human brain extract (Erickson, J.C. (649) 297)

β-Amyloid protein precursor; β-Amyloid peptide; Global cerebral ischemia; Cardiac arrest; Clinical death; Stroke; Rat (Pluta, R. (649) 323)

Human brain; Locus ceruleus aging; Immunocytochemistry (Van Zwieten, E.J. (649) 329)

Aluminum neurotoxicity; Neurodegenerative disorder; Iron-binding protein; Lactoferrin; Transferrin (Leveugle, B. (650) 20)

Alkaloid; Calcium; Free radical; Fura-2; Neurodegeneration; Neurotrophic factor; Phosphorylation (Goodman, Y. (650) 170)

Hippocampus; Acetylcholine; Serotonin; Memory (Murtha, S.J.E. (651) 16)

Amyloid β-protein; Dutch-type amyloidosis (Dudek, S.M. (651) 129)

Amyloid peptide; Calcium; Dichlorofluorescin; Free radical; Indomethacin; Iron-catalyzed oxidation; Lipoxygenase; Neurodegeneration (Goodman, Y. (654) 171)

Protein phosphatase; Proline-directed protein kinase; Neurofibrillary tangle; Immunocytochemistry; Neuron (Pei, J.-J. (655) 70)

Alz-50; Human hypothalamus; Senile plaque; Somatostatin; Somatostatin-like (Van de Nes, J.A.P. (655) 97)

Muscarinic receptor; Endogenous inhibitor; Brain (Frey II, W.H. (655) 153)

Neurofibrillary tangle; Membrane skeleton protein; Protein 4.1; Neurodegeneration (Sihag, R.K. (656) 14)

Astrocyte; Cytoskeleton; Extracellular matrix; Huntington's disease; Immunocytochemistry; Parkinson's disease (DeWitt, D.A. (656) 205)

Calcium/calmodulin-dependent protein kinase II; Protein phosphorylation; Protein kinase; Tau (Simonian, N.A. (657) 294)

Carboxylesterase; Macrophage; Endothelial cell; Stroke; Amyotrophic lateral sclerosis (Yamada, T. (658) 163)

β/A4 peptide; Amyloid precursor protein; Endosomal/lysosomal pathway; Intracellular processing (Tsuzuki, K. (659) 213)

β-Amyloid protein; Brain cell proliferation; Growth factor; Signal transduction (Singh, V.K. (660) 353)

Epinephrine neuron; Lysosomal enzyme; Tonic vasomotor center (Burke, W.J. (661) 35)

Basal forebrain; Substantia innominata; Cortical blood flow; Cortical PO_2; Cortical PCO_2; Aging; Fischer 344 rat; Cerebral blood-flow regulation; Helium clearance; Physostigmine; Intrinsic cholinergic innervation (Sercombe, R. (662) 155)

Acid phosphatase; Low molecular weight; Tyrosine; Phosphorylation; Epidermal growth factor receptor; Brain (Shimohama, S. (662) 185)

Aging; Muscarinic signal transduction; GTPase (Cutler, R. (664) 54)

Phosphoinositide hydrolysis; D-Fenfluramine; *p*-Chloroamphetamine; Serotonin; Carbachol; Rat cortex (Erfurth, A. (665) 107)

Amyloid precursor protein; Mutation; Transgenic; Synapse; Neuroplasticity (Mucke, L. (666) 151)

Synapse protein; Lewy body disease; Hippocampal-entorhinal formation; Neuritic plaque; Confocal laser-scanning microscopy (Wakabayashi, K. (667) 24)

β-Amyloid; Antibody; Cerebral cortex; Striatum (Mak, K. (667) 138)

Dementia; Nucelar magnetic resonance spectroscopy; *N*-Acetyl aspartate; Neurodegeneration; Imaging (Kwo-On-Yuen, P.F. (667) 167)

Amyloid; Toxicity; β-Amyloid peptide; Pheochromocytoma cell (Fukuyama, R. (667) 269)

Acetylcholinesterase; Brain; Rat; Monkey; Positron emission tomography; Central cholinergic system; Nucleus basalis magnocellularis (Namba, H. (667) 278)

Cathepsin E; Human brain; Immunohistochemistry (Bernstein, H.-G. (667) 287)

Protease-nexin-1; Thrombin; Blood vessel; Blood–brain barrier; Cerebrovascular injury (Vaughan, P.J. (668) 160)

Amacrine
Enkephalin; Dopamine; Retina; Chicken; Light adaptation (Boelen, M.K. (645) 240)

Amacrine cell
Ca^{2+}/calmodulin-dependent protein kinase II; Retina; Ganglion cell; Choline acetyltransferase; Rat (Ochiishi, T. (634) 257)

GABA; $GABA_B$ receptor; Baclofen; CGP 35348; Retina; Ganglion cell (Tian, N. (660) 267)

Amantadine
In vivo microdialysis; Striatum; Dopaminergic neuron; Re-uptake inhibition; *N*-Methyl-D-aspartate receptor (Mizoguchi, K. (662) 255)

AMCA
Coexistence; Immunofluorescence; Texas red; Fluorescein isothiocyanate; GABA; Glycine (Watt, C.B. (634) 310)

Amfonelic acid
Habenula; Stress; Fos; c-*fos*; Dopamine; Amphetamine; Apomorphine (Wirtshafter, D. (633) 21)

Methamphetamine; Tyrosine hydroxylase; Astrocyte; Neurotoxicity (Pu, C. (649) 217)

Amine content
Corticosterone; Septohippocampal cholinergic system; AF64A; Cholinergic hypofunction (Amoroso, D. (661) 9)

Amino acid
Brain; Blood–brain barrier; Transport; Permeability; α-Aminoisobutyric acid; Perfusion in situ (Ennis, S.R. (643) 100)

NMR spectroscopy; NMDA receptor; MK-801; Lactate; Brain metabolism; Glycolysis (Loubinoux, I. (643) 115)

Monoamine; Mediobasal hypothalamus; Luteinizing hormone; Estrus behavior; Sheep (Fabre-Nys, C. (649) 282)

D-Amino-acid oxidase
D-Serine; Distribution; Vertebrate; Brain; Cerebrum; Cerebellum; NMDA receptor (Nagata, Y. (634) 291)

D-Amino acid oxidase
Localization; Astrocyte; Glia; Rat brain; Central nervous system; Regional differentiation of astrocytes (Horiike, K. (652) 297)

Catalase; Edematous change; Hydrogen peroxide; Spongiform encephalopathy; Zitter rat (Gomi, H. (653) 66)

Amino acid release
Forebrain ischemia; *R*-Phenylisopropyladenosine; Microdialysis; Behavior; Neuronal damage; Rat (Héron, A. (641) 217)

Hippocampus; Mossy fiber; Synaptosome; Irradiation; Glutamate decarboxylase (Taupin, P. (644) 313)

Ammonium chloride; Astrocyte; GABA; Glutamate; Hepatic encephalopathy; Taurine (Albrecht, J. (660) 288)

Amino acid transmitter
Acetylcholine; Acoustic startle response; Caudal pontine reticular nucleus; Laterodorsal tegmental nucleus; Pedunculopontine tegmental nucleus; Microiontophoresis; Auditory stimulation (Kungel, M. (643) 29)

Aminoacylhistidine dipeptide
Glutamate; Carnosine; Excitatory amino acid; Hair cell; Frog semicircular canal; Immunocytochemistry (Panzanelli, P. (662) 293)

γ-Aminobutyric acid
Substantia nigra; Receptor subunit; Seizure; Deoxyglucose autoradiography; Hybridization, in situ; Infant; Rat (Moshé, S.L. (665) 141)

Adenosine; Hippocampus; Chloride; Barium; Muscimol (Akhondzadeh, S. (665) 229)

Ethanol; Pentobarbital; Inhibitory postsynaptic current; Hippocampus; Patch-clamp (Weiner, J.L. (665) 307)

FG 7142; Double Y-maze; Memory; Muscimol; Nucleus basalis magnocellularis; Reference memory; Working memory (Smith, C.G. (666) 61)

Baclofen; Bicuculline methiodide; Enkephalin; Estrogen; $GABA_A$ receptor; $GABA_B$ receptor; Lordosis; THIP; Tonic inhibition; Ventromedial nucleus of hypothalamus (Ogawa, S. (666) 239)

γ-Aminobutyric acid release
Retinal cell; Glutamate receptor; NNC-711; MK-801; CNQX (Ferreira, I.L. (664) 252)

Aminoglycoside antibiotic
Gentamicin; Olivocochlear efferent; Contralateral efferent suppression; Compound action potential (Smith, D.W. (652) 243)

α-Aminoisobutyric acid
Brain; Blood–brain barrier; Transport; Permeability; Amino acid; Perfusion in situ (Ennis, S.R. (643) 100)

2-Amino-4-phosphonobutyric acid
Dopamine release; Retina; ON channel; ACPD; GABA; Picrotoxin; Excitatory amino acid; Glutamate receptor (Boatright, J.H. (649) 339)

D,L-2-Amino-5-phosphonovaleric acid
Spinal cord; NMDA; Nitric oxide; Hyperalgesia; Prostaglandin; MK-801; L-NAME; Ibuprofen; Acetyl salicylic acid (Wiertelak, E.P. (664) 9)

4-Aminopyridine
Serotonin; GABA; Baclofen; Burst discharge; Hilar neuron; Granule cell; Hippocampal slice (Ghadimi, B.M. (633) 27)

Long-term potentiation; Hippocampus; Fiber volley; Tetraethylammonium; Presynaptic; Action potential; Potassium channel (Lærum, H. (637) 349)

Pressoreceptor; Tetraethylammonium; Charybdotoxin (Reynolds, P.J. (665) 115)

Long-term potentiation; MK-801; Potassium; Veratridine (Canevari, L. (667) 115)

21-Aminosteroid
Estradiol; β-Endorphin; Free radical; Hypothalamus (Schipper, H.M. (652) 161)

Tirilazad mesylate; Prostaglandin; Leukotriene (Andrus, P.K. (659) 126)

Aminotetralin
Autoreceptor; D_2; D_3; Dopamine; 7-OH-DPAT; (±)-7-Hydroxy-*N*,*N*-dipropylaminotetralin; Receptor; Tyrosine hydroxylase (Booth, R.G. (662) 283)

Ammonium chloride
Amino acid release; Astrocyte; GABA; Glutamate; Hepatic encephalopathy; Taurine (Albrecht, J. (660) 288)

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Neuromuscular junction; Miniature endplate current; Synaptic vesicle; Acetylcholine; pH (Prior, C. (664) 61)

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Amnesia model
σ Opioid site; NMDA receptor; 1,3-Di-(2-tolyl)guanidine (DTG); Dizocilpine; (MK-801) (Maurice, T. (647) 44)

σ Opioid site; 1,3-Di-(2-tolyl)guanidine (DTG); Carbon monoxide; Hypoxia; NMDA (Maurice, T. (647) 57)

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Circadian rhythm; Suprachiasmatic nucleus; Serotonin; K^+ channel; Apamin; Charybdotoxin; Protein kinase A (Prosser, R.A. (644) 67)

Metabotropic glutamate receptor; Purine release; Hippocampal slice; Forskolin (Casabona, G. (645) 13)

PACAP; Cerebral microvessel; Peptide (Kobayashi, H. (647) 145)

Neuromuscular; Quantum; Anandamide; Cannabinoid; Synapse (Van der Kloot, W. (649) 181)

Nodose ganglion; $5\text{-}HT_3$ receptor; Patch-clamp; Forskolin; Desensitization (Fan, P. (650) 16)

Neuronal expression; Neuroblastoma P_2; Cholinergic phenotype; Catecholaminergic phenotype (Kentroti, S. (651) 1)

Nitric oxide synthase; Nitric oxide (Lin, A.M.-Y. (651) 160)

LY163502; Depolarization; Glutamate; G protein (Sim, L.J. (651) 311)

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Extracellular matrix; Gene expression; Schwann cell (Yamamoto, M. (653) 335)

Circadian oscillator; Melatonin; Fura-2; Thapsigargin; Secretion (D'Souza, T. (656) 85)

Neuromodulation; Peptide; Second messenger; Invertebrate; Feeding; Buccal; cAMP-dependent protein kinase; Cotransmitter (Hooper, S.L. (657) 337)

Neuropeptide Y; Galanin; Paraventricular nucleus; Arcuate nucleus; Third ventricle (Akabayashi, A. (660) 323)

αMSH; ACTH analog; Calcium; Dorsal root ganglia; Spinal cord; Schwann cell (Hol, E.M. (662) 109)

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Human neuroblastoma; NMB cell line; Opioid; Opioid receptor; Receptor downregulation; Receptor upregulation (Baumhaker, Y. (665) 94)

Acetylcholine synthesis; Acetylcholine release; Calcium; Choline acetyltransferase; Nerve growth factor; Septal cell (Suzuki, T. (665) 311)

AMPA
Goldfish; Excitatory amino acid; Kainate; Glutamate; CNQX; Autoradiography (Barnes, J.M. (637) 323)

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Glutamate; NMDA; Micturition reflex; Urinary bladder (Sugaya, K. (640) 1)

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NMDA; Kainate; Metabotropic; Decortication; Neostriatum (Wüllner, U. (647) 209)

Excitatory amino acid; NMDA; AP5; CPPene; 7-Chlorokynurenate; D-Serine; NBQX; CNQX; Neurotransmission (Qume, J.D.M. (649) 43)

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AMPA receptor; L-Glutamate; 2,3-Dihydro-6-nitro-7-sulfamoyl-benzo(f)-quinoxaline; NS-257; Autoradiography; Rat (Porter, R.H.P. (664) 202)

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AMPA / kainate
Nitric oxide synthase; Calcium-binding protein; Calbindin; Parvalbumin; Calretinin; Excitotoxicity (Dun, N.J. (666) 289)

AMPA receptor
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Excised patch; Hippocampus; 1-BCP (Arai, A. (638) 343)

Glutamate; Arachidonic acid; Cerebellum; Hippocampus; Depression (Kovalchuk, Y. (643) 287)

Striatal compartment; Striosome; Matrix; GABA release; NMDA receptor; Cholinergic receptor; Striatal slice (Galli, T. (649) 243)

Motor neuron disease; Spinal cord; Motor cortex; Kainate receptor; Excitotoxicity; Non-NMDA receptor; Autoradiography (Shaw, P.J. (655) 186)

Dopaminergic neuron; Excitatory amino acid; GABA; $GABA_A$ receptor; κ Opioid receptor (Wagner, E.J. (660) 319)

L-Glutamate; 2,3-Dihydro-6-nitro-7-sulfamoyl-benzo(f)-quinoxaline; AMPA; NS-257; Autoradiography; Rat (Porter, R.H.P. (664) 202)

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AMPA-selective glutamate receptor α_2 subunit
Glutamate receptor; AMPA receptor; Baculovirus; Ligand-gated ion channel; *Spodoptera frugiperda* insect cell; *Autographa californica* nuclear polyhedrosis virus; *N*-Glycosylation (Hattori, S. (666) 43)

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Neuromodulation; Peptide; Second messenger; Invertebrate; cAMP; Feeding; Buccal; Cotransmitter (Hooper, S.L. (657) 337)

Ca^{2+}/calmodulin-dependent protein kinase II; Protein phosphorylation; Endogenous substrate; Brain development; Two-dimensional gel electrophoresis (Sugiura, H. (659) 42)

Amphetamine
Habenula; Stress; Fos; c-*fos*; Dopamine; Apomorphine; Amfonelic acid (Wirtshafter, D. (633) 21)

Medial septum; Radial maze; Learning; Memory; Sensitization; Drug–lesion interaction (Ennaceur, A. (636) 277)

Conditioned place preference; Locomotion; Mesencephalic locomotor region; Morphine; Pedunculopontine tegmental nucleus; Rat; Reinforcement (Olmstead, M.C. (638) 29)

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Dopamine; Intracranial self-stimulation; Reward; Reinforcement; Nucleus accumbens; Caudate-putamen; Curve shift (Ranaldi, R. (642) 251)

Hotfoot; Neurological mutation; Development; Ataxia; Monoamine; Motor behavior; Thermoregulation (Draski, L.J. (645) 69)

Dopamine uptake; GBR-12935; Striatum; Asymmetry; Rotation (Gordon, I. (646) 207)

A-77636; Brain stimulation reward; Caudate-putamen; Cortex; Dopamine D_1 agonist; Dopamine D_2 agonist; Dopamine receptor; Nucleus accumbens; Quinpirole; Rat; Reinforcement (Ranaldi, R. (651) 283)

Norepinephrine; Dopamine; Cocaine; Clonidine; Prefrontal cortex; Hippocampus; Microdialysis; Caudate (Florin, S.M. (654) 53)

Individual difference; Conditioning; Amphetamine-induced hyperlocomotion; Sensitization; Drug abuse; Locomotion (Jodogne, C. (657) 236)

Cocaine; Dopamine; Glutamate; Stereotypy; Striatum (Karler, R. (658) 8)

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Amphetamine abuse
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Amphetamine-induced hyperlocomotion
Individual difference; Conditioning; Sensitization; Drug abuse; Amphetamine; Locomotion (Jodogne, C. (657) 236)

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GABA receptor; Neuroactive steroid; Neurosteroid; Corticosterone (Orchinik, M. (646) 258)

Visual system; Retinopetal projection; Isthmo-optic projection; Fish; Reptile (Malz, C.R. (661) 259)

Amygdala
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Excitatory amino acid; Aggressive behavior; Midbrain periaqueductal gray; Cat; Glutamate; Aspartate; Defensive rage behavior (Shaikh, M.B. (635) 187)

Microdialysis; Noradrenaline overflow; Noradrenaline metabolite; α_2-Autoreceptor; Medial prefrontal cortex; Frontoparietal cortex; Hippocampus (Van Veldhuizen, M.J.A. (635) 238)

Oxytocin; Parabrachial nucleus; Oval nucleus; Oxytocin binding site; Microiontophoresis; Histoautoradiography (Condés-Lara, M. (637) 277)

NBQX; AMPA receptor; Kindling; Hippocampus; Antiepileptogenic effect; Anticonvulsant effect; Epilepsy (Namba, T. (638) 36)

Ventral striatum; Hippocampus; Spatial memory; Single unit activity (Lavoie, A.M. (638) 157)

Fear; Anxiety; Septum; Midazolam; Ro 15–1788; Receptor (Pesold, C. (638) 295)

Corticosterone; Corticotropin-releasing hormone; Paraventricular nucleus; mRNA (Makino, S. (640) 105)

Salt appetite; Furosemide; Yohimbine (Zardetto-Smith, A.M. (645) 123)

Cocaine; Dopamine; 6-Hydroxydopamine; Progressive ratio; Reinforcement; Self-administration (McGregor, A. (646) 273)

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Corticosterone; Corticotropin-releasing hormone; Bed nucleus of the stria terminalis; mRNA; Paraventricular nucleus (Makino, S. (657) 141)

Central nucleus; Basolateral complex; Lidocaine; Inhibitory avoidance; Learning; Memory; Retention (Parent, M.B. (661) 97)

Acoustic startle response; Anxiety; Caudal pontine reticular nucleus; Central gray; Fear; Footshock; Periaqueductal gray; Rat; Sensitization (Fendt, M. (661) 163)

Limbic system; Catecholaminergic cell group; A1 noradrenergic neurons; Cardiovascular reflex pathway (Ciriello, J. (663) 346)

Stress; Dopamine; Frontal cortex; Fear (Davis, M. (664) 207)

Olfactory bulbectomy; 2-Deoxyglucose; Brain slice; Cerebral cortex (Shibata, S. (665) 147)

Adrenalectomy; Steroid (Lee, Y. (666) 93)

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Amygdala–fugal pathway
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Amygdala kindling
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Amygdalo-hippocampal interaction
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Amygdaloid lesion
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Amyloid
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Alzheimer's disease; Toxicity; β-Amyloid peptide; Pheochromocytoma cell (Fukuyama, R. (667) 269)

β-Amyloid
Choline; Alzheimer's disease; Carrier; Leakage; Acetylcholine; Brain; Neuron; PC12 cell (Galdzicki, Z. (646) 332)

Apoptosis; Ultrastructure; Neuron; Cell culture (Watt, J.A. (661) 147)

Alzheimer's disease; Antibody; Cerebral cortex; Striatum (Mak, K. (667) 138)

Amyloid β-peptide
Alzheimer's disease; Acetylcholine release; Microdialysis; Septo-hippocampal pathway (Abe, E. (636) 162)

Neuroblastoma cell; Ca^{2+}-channel; Nimodipine; Alzheimer's disease; Patch clamp (Davidson, R.M. (643) 324)

Amyloid β peptide
Apoptosis; Necrosis; PC12 cell; Nerve growth factor (Behl, C. (645) 253)

Amyloid β-protein
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Alzheimer's disease; Dutch-type amyloidosis (Dudek, S.M. (651) 129)

Amnesia; Memory processing; Mouse; Peptide; Retention; K^+ channel (Flood, J.F. (663) 271)

Amyloid β-protein precursor
Aging; Purkinje cell (Nakamura, Y. (643) 319)

Amyloid peptide
Ageing; Microvasculature; Substance P; SEC-receptor (Khalil, Z. (651) 227)

Alzheimer's disease; Calcium; Dichlorofluorescin; Free radical; Indomethacin; Iron-catalyzed oxidation; Lipoxygenase; Neurodegeneration (Goodman, Y. (654) 171)

β-Amyloid peptide
β-Amyloid protein precursor; Global cerebral ischemia; Cardiac arrest; Clinical death; Stroke; Rat; Alzheimer's disease (Pluta, R. (649) 323)

Amyloid; Alzheimer's disease; Toxicity; Pheochromocytoma cell (Fukuyama, R. (667) 269)

Amyloid precursor protein
Neuron; Lysosome; Dense bodies; Leupeptin; Protease inhibitor; Alzheimer's disease (Hajimohammadreza, I. (640) 25)

Cholinesterases; Alzheimer's disease; Plaque; Tangle (Geula, C. (644) 327)

Human brain; Coma; Brain autolysis; Anti-β/A4 antibody; Western blotting; Brain fraction (Webster, M.-T. (644) 347)

Alzheimer's disease; β/A4 peptide; Endosomal/lysosomal pathway; Intracellular processing (Tsuzuki, K. (659) 213)

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β-Amyloid precursor protein
Human fetal spinal cord; Development; Immunostaining; Western blot analysis (Arai, H. (642) 132)

β-Amyloid protein
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Brain neuron; Cytotoxicity; Ethidium bromide; Flow cytometer (Furukawa, K. (662) 259)

β-Amyloid protein precursor
β-Amyloid peptide; Global cerebral ischemia; Cardiac arrest; Clinical death; Stroke; Rat; Alzheimer's disease (Pluta, R. (649) 323)

Amyotrophic lateral sclerosis
Corticocortical connection; Dementia; Guam; Neurofibrillary tangle; Parkinsonism (Hof, P.R. (650) 107)

Carboxylesterase; Macrophage; Endothelial cell; Stroke; Alzheimer's disease (Yamada, T. (658) 163)

Gene expression; Oxidative stress; Motoneuron; Superoxide dismutase (Bergeron, C. (659) 272)

Analgesia
Vagal afferent ganglion; Nodose; Cholecystokinin; Neuropeptide Y; Receptor; Satiety (Ghilardi, J.R. (633) 33)

Morphine; NMDA receptor; Opiate tolerance; MK-801; Dizocilpine; Phencyclidine; Dextrorphan; Ketamine; Neuroplasticity (Trujillo, K.A. (633) 178)

Brain-derived neurotrophic factor; Neurotrophin-3; Nerve growth factor; Periaqueductal gray; Spinal cord; Serotonin; Naloxone (Siuciak, J.A. (633) 326)

Pain; Nociception; Thermoreception; Opiate; Pathway (Craig, A.D. (636) 233)

Frontal cortex; Chronic pain; Limbic system; Cold pressor (Backonja, M. (639) 337)

Anxiety; Proglumide; CR1409; Cholecystokinin; Pain; Orienting response; Alerting; Hyperalgesia; Columnar organization (Liu, H. (642) 83)

β-Endorphin; Opioid; DNA synthesis; Spinal cord; Intrathecal injection; Development; Nociception (Bartolome, J.V. (642) 311)

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Substance P; Spinal cord; Pain; Vagina; Cervix (Steinman, J.L. (647) 204)

Sickness behavior; Lipopolysaccharide; Opiate; Interleukin-1; Infection; Open field; Naltrexone; Fever; Rat (Yirmiya, R. (648) 80)

Dizocilpine; MK-801; U-50,488H; κ Opioid receptor agonist; Tolerance (Bhargava, H.N. (649) 111)

Morphine; Nimodipine; Bay K-8644; Mouse; Reward (Kuzmin, A.V. (652) 1)

Nociception; Pain; Copulation; Female sexual behavior; Pelvic nerve; Pudendal nerve; Hypogastric nerve; Mount; Intromission; Ejaculation (Gómora, P. (656) 52)

Prostaglandin E_2; Thermal hyperalgesia; Pain; M&B28767; 17-Phenyl-ω-trinor PGE_2; Central nervous system (Oka, T. (663) 287)

Glucose utilization; 2-Deoxyglucose; Morphine; Pain; Limbic system; Footshock (Gescuk, B. (663) 303)

μ Receptor; δ Receptor; Synergy; Nociception; Pain (Rossi, G.C. (665) 85)

MK-801; N^G-Monomethyl-L-arginine; Δ^9-Tetrahydrocannabinol; Hypothermia; Tolerance; Mouse (Thorat, S.N. (667) 77)

Antisense; Oligodeoxynucleotide; Opioid; κ Opioid receptor; Spiradoline (Adams, J.U. (667) 129)

Stress; β-Endorphin; Opioid; Non-opioid; Periaqueductal gray; Rat (Hawranko, A.A. (667) 283)

Anandamide
Neuromuscular; Quantum; Cannabinoid; cAMP; Synapse (Van der Kloot, W. (649) 181)

Androgen
Lateral septum; Bed nucleus of stria terminalis; Cytochrome P450; Somatospiny neuron (Jakab, R.L. (664) 85)

Androgenization
GABA; Luteinizing hormone; Sexual maturation; $GABA_A$ receptor; Ontogenesis (Szwarcfarb, B. (646) 351)

Androgen receptor
Somatostatin; Immunoreactivity; Periventricular nucleus; Bed nucleus of the stria terminalis; Rat (Huang, X. (652) 291)

Anesthesia
Fastigial nucleus; Blood pressure; Kainate; Awake rat; Heart rate; Microdialysis (Parry, T.J. (635) 27)

Positron emission tomography; Ketamine; NMDA receptor; Dopamine D_2 receptor; Striatum; Monkey (Onoe, H. (663) 191)

α-Chloralose; Halothane; Laser–Doppler flowmetry; Cortical blood flow; CO_2 responsiveness (Bonvento, G. (665) 213)

Anesthetic effect
Fos; Zif/268; Vestibular; Otolith; Semicircular canal; Inferior olive (Kaufman, G.D. (646) 345)

Anesthetized rat
Ginsenoside Rb1; Malonylginsenoside Rb1; Ginsenoside Rg1; Long-term potentiation; Dentate gyrus (Abe, K. (649) 7)

Angiogenesis
Hypobaric hypoxia; Brain microcirculation; Vascular cast; Capillary segment length (Mironov, V. (660) 73)

Endoneurial capillary; Regeneration; Sciatic nerve; Nerve transection; Rat (Podhajsky, R.J. (662) 88)

FGF-2; Neurotrophic factor; Injury repair (Gonzalez, A.M. (665) 285)

Angiotensin antagonist
Ventrolateral medulla; Hypertension; Angiotensin II; Angiotensin-(1–7) antagonist; Angiotensin receptor (Fontes, M.A.P. (665) 175)

Angiotensin-(1–7) antagonist
Ventrolateral medulla; Hypertension; Angiotensin II; Angiotensin antagonist; Angiotensin receptor (Fontes, M.A.P. (665) 175)

Angiotensin AT_1 receptor
Angiotensin AT_2 receptor; Vasopressin; Osmolality (Hogarty, D.C. (637) 126)

Angiotensin AT_2 receptor; Angiotensin receptor subtype; Antagonist; Blood pressure; Drinking; Intracerebroventricular (Widdop, R.E. (648) 46)

Angiotensin AT_2 receptor; Immunocytochemistry; Angiotensin receptor; Angiotensin II (Reagan, L.P. (662) 45)

Angiotensin II; Arginine-vasotocin; Neuropeptide; Central nervous system; Heart rate; Blood pressure; Trout (Le Mevel, J.-C. (654) 216)

Angiotensin AT_2 receptor
Angiotensin AT_1 receptor; Vasopressin; Osmolality (Hogarty, D.C. (637) 126)

Angiotensin AT_1 receptor; Angiotensin receptor subtype; Antagonist; Blood pressure; Drinking; Intracerebroventricular (Widdop, R.E. (648) 46)

Angiotensin AT_1 receptor; Immunocytochemistry; Angiotensin receptor; Angiotensin II (Reagan, L.P. (662) 45)

Angiotensin binding
Spinal cord; Intermediolateral nucleus; Sympathetic nervous system; Dorsal root ganglion; Dorsal horn; Parasympathetic nervous system (Oldfield, B.J. (650) 40)

Angiotensin-converting enzyme inhibition
Brain capillary endothelial cell; Nitric oxide; Prostacyclin; Cytosolic calcium; Bradykinin (Wiemer, G. (638) 261)

Angiotensin II
Opioid antagonist; μ Opioid receptor; κ Opioid receptor; δ Opioid receptor; Hypertonic saline; Drinking; Water intake (Ruegg, H. (635) 203)

Microdialysis; Paraventricular nucleus; Hyperosmotic stimulation; Angiotensin III (Qadri, F. (637) 45)

Thirst; Cellular dehydration; Losartan; Brain sodium concentration; Cattle; Sheep; Rabbit; Rat; Mouse (Blair-West, J.R. (637) 335)

Nucleus tractus solitarii; Arginine-vasopressin; Area postrema; Baroreflex; Brain slice (Cai, Y. (647) 242)

Arginine-vasotocin; Neuropeptide; Central nervous system; Heart rate; Blood pressure; Angiotensin AT_1 receptors; Trout (Le Mevel, J.-C. (654) 216)

c-*fos*; Vasopressin; Oxytocin; Immediate early gene; Drinking behavior; Water ingestion; Gene suppression; Paraventricular nucleus; Supraoptic nucleus (Xu, Z. (659) 157)

Angiotensin AT_2 receptor; Angiotensin AT_1 receptor; Immunocytochemistry; Angiotensin receptor (Reagan, L.P. (662) 45)

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Ventrolateral medulla; Hypertension; Angiotensin antagonist; Angiotensin-(1–7) antagonist; Angiotensin receptor (Fontes, M.A.P. (665) 175)

Losartan; Arterial pressure; Sympathetic nervous system; L-Glutamate; Vasomotor neuron; Genetic hypertension (Averill, D.B. (665) 245)

Angiotensin III
Microdialysis; Paraventricular nucleus; Hyperosmotic stimulation; Angiotensin II (Qadri, F. (637) 45)

Bestatin; Subfornical organ; Brain slice; Single neuron activity; Desensitization; Normotensive rat; Spontaneously hypertensive rat (Yang, C.C.H. (638) 169)

Angiotensinogen mRNA
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Angiotensin receptor
Angiotensin AT_2 receptor; Angiotensin AT_1 receptor; Immunocytochemistry; Angiotensin II (Reagan, L.P. (662) 45)

Ventrolateral medulla; Hypertension; Angiotensin II; Angiotensin antagonist; Angiotensin-(1–7) antagonist (Fontes, M.A.P. (665) 175)

Angiotensin receptor subtype
Angiotensin AT_1 receptor; Angiotensin AT_2 receptor; Antagonist; Blood pressure; Drinking; Intracerebroventricular (Widdop, R.E. (648) 46)

2,5-Anhydro-D-mannitol
c-*fos*; Nucleus tractus solitarii; Lateral parabrachial nucleus; Food intake; Vagus nerve (Ritter, S. (646) 53)

Animal model
Norepinephrine; Depression; Limbic system; Wistar–Kyotot rat; Stress (Tejani-Butt, S.M. (649) 27)

$GABA_B$; γ-Hydroxybutyric acid; Absence epilepsy; Ontogeny (Snead III, O.C. (659) 147)

Epilepsy; Limbic seizure; Ontogeny (Bertram, E.H. (661) 157)

Aniracetam
Nootropics; Nefiracetam; Calcium channel; cAMP; G protein; NG108-15 cell (Yoshii, M. (642) 123)

A1 noradrenergic neuron
Caudal ventrolateral medulla; Hemorrhage; Vasopressin; Arterial pressure; Endocrinology (Gieroba, Z.J. (657) 330)

A1 noradrenergic neurons
Amygdala; Limbic system; Catecholaminergic cell group; Cardiovascular reflex pathway (Ciriello, J. (663) 346)

Anorectic receptor
Obesity; Glucose; Norepinephrine; Mazindol (Levin, B.E. (668) 171)

Anoxia
Mongolian gerbil; Rat; Ischemic depolarization; Experimental ischemia; Hippocampal slice; Neuronal death (Stittsworth Jr., J.D. (649) 353)

Adenosine; Rat; Ischemia (Donaghy, K.M. (656) 174)

Cerebellar granule cell neuron; Cerebral cortical neuron; Glutamate; Glutamine; Glutaminase (Huang, R. (660) 129)

Anoxic depolarization
Cerebral ischemia; Ion homeostasis; Tetrodotoxin; Sodium channel; Isolated perfused rat brain (Xie, Y. (652) 216)

Antagonist
Angiotensin AT_1 receptor; Angiotensin AT_2 receptor; Angiotensin receptor subtype; Blood pressure; Drinking; Intracerebroventricular (Widdop, R.E. (648) 46)

Anterior hypothalamic area
Circadian rhythm; Adenosine triphosphate; Suprachiasmatic nucleus; Caudate putamen; Rat; Metabolic activity (Yamazaki, S. (664) 237)

Anterior hypothalamus
Fever; *Candida albicans*; Thermoregulation; Fungus; Preoptic area; Temperature; Microinjection; Pyrogen contamination; Brain; Rat; Intracerebral injection; Hyperthermia (Barwick, V.S. (635) 1)

Brain lesion; Medial preoptic area; Reptile; Sexual behavior (Kingston, P.A. (643) 349)

2-Deoxyglucose; Medial preoptic area; Reptile; Ventromedial hypothalamus (Rand, M.S. (663) 163)

Anterograde neuronal tracing
Choleratoxin; Hamster; Suprachiasmatic nucleus; Hypothalamus; Nitric oxid synthase; NADPH-diaphorase; Retinohypothalamic tract (Decker, K. (666) 284)

Anterograde tracing
Rat; Cortico-nigral projection; Biotinylated dextran amine; Prefrontal cortex; Substantia nigra; Light microscopy (Naito, A. (637) 317)

Sympathetic nerve; Superior cervical ganglion; Major petrosal nerve; Cochlea; Wheat germ agglutinin–horseradish peroxidase; Rat (Shibamori, Y. (646) 223)

Basal ganglia; Globus pallidus; Neuronal morphology; *Phaseolus vulgaris*-leucoagglutinin (Rajakumar, N. (651) 332)

Cortico-pallidal projection; Biotinylated dextran amine; Frontal cortex; Globus pallidus; Entopeduncular nucleus; (Rat) (Naito, A. (653) 251)

Anteromedial cortex lesion
Phenobarbital; Recovery of function; Somatosensory asymmetry; Anti-convulsants (Hernandez, T.D. (635) 300)

Anti-β / A4 antibody
Amyloid precursor protein; Human brain; Coma; Brain autolysis; Western blotting; Brain fraction (Webster, M.-T. (644) 347)

Antibody
Cytokine; Sleep deprivation; Electroencephalogram (Opp, M.R. (639) 57)

Glutathione; Glutaraldehyde; ELISA; Immunohistochemistry; Rat brain (Amara, A. (659) 237)

Alzheimer's disease; β-Amyloid; Cerebral cortex; Striatum (Mak, K. (667) 138)

Antibody microprobe
Substance P; CP96,345; CP96,344; Spinal cord; Nociception; Joint pain; NK-1 receptor (Neugebauer, V. (666) 207)

Antibody response
Central catecholamine; Corticosterone (Shanks, N. (666) 77)

Anticonvulsant
GABA; γ-vinyl-GABA; Hippocampus; Inhibition; Paired-pulse (Jackson, M.F. (651) 85)

Stress control; Coping; Picrotoxinin; Strychnine; Seizure; Chloride channel; TBPS; Receptor binding; GABA shift; Endogenous benzodiazepine (Drugan, R.C. (661) 127)

Anticonvulsant effect
NBQX; AMPA receptor; Kindling; Amygdala; Hippocampus; Antiepileptogenic effect; Epilepsy (Namba, T. (638) 36)

Anti-convulsants
Anteromedial cortex lesion; Phenobarbital; Recovery of function; Somatosensory asymmetry (Hernandez, T.D. (635) 300)

Antidepressant
Fluoxetine; Serotonin; Norepinephrine; Prozac (Frankfurt, M. (650) 127)

Tumor necrosis factor; Adrenergic; Hippocampus; Locus coeruleus; Brain (Ignatowski, T.A. (665) 293)

Antidepressant-binding sites
Milnacipran; Paroxetine; Serotonin transporter; Autoradiography; Lesion; 5,7-Dihydroxytryptamine (Barone, P. (668) 129)

Antidepressant drug
Serotonin $5\text{-}HT_2$ binding site; Suicide; Depression; Human post-mortem brain; Ketanserin (Lowther, S. (642) 281)

Antidromic activation
Intracellular recording; Rostral ventrolateral medulla; PNMT-containing neuron; EPSP; Intracellular labeling (Granata, A.R. (648) 299)

Autoradiography; Biocytin; Brainstem slice; Non-specific current; Neuropeptide; Synaptic current; Oxytocin; Voltage clamp (Palouzier-Paulignan, B. (650) 117)

Antidromic spike
Presynaptic inhibition; Primary afferent depolarization; Crayfish; Fictive locomotion (Cattaert, D. (666) 109)

Sensory afferent; Electrical synapse; Dye-coupling; Crayfish (Marchand, A.R. (667) 98)

Antidromic stimulation
Respiratory neuron; Medulla oblongata; Nucleus tractus solitarii; Extracellular recording; DL-Homocysteic acid; Vagal afferent (De Castro, D. (639) 49)

Antiepileptic drug
Kindling; Epilepsy; Estrous cycle; Estrogen; Progesterone; GABA; Drug resistance (Ebert, U. (638) 45)

Antiepileptogenic effect
NBQX; AMPA receptor; Kindling; Amygdala; Hippocampus; Anticonvulsant effect; Epilepsy (Namba, T. (638) 36)

Anti-ischemic activity
Mechanical brain injury; Hippocampal slice; Intracellular free calcium; Fura-2; Oxygen–glucose deprivation (Honda, T. (666) 263)

Antinociception
Hypercapnia; Carbon dioxide; Stress (Mischler, S.A. (640) 322)

Intrathecal; Aging; Tail flick test; Opioid receptor; Opiate agonist (Crisp, T. (643) 282)

Opiate; Benzodiazepine; Drug interaction; Met-enkephalin; Sedation; Serum morphine level (Sribanditmongkol, P. (645) 1)

Pain; Brainstem; Rostral ventrolateral medulla; Dorsal horn; Catecholamine (Siddall, P.J. (645) 61)

Cholinergic antinociception; Carbachol; Non-opioid antinociception; Periaqueductal gray (Guimarães, A.P.C. (647) 220)

Periaqueductal gray; Rostral ventromedial medulla; Morphine; Lidocaine; Descending inhibitory pathway (Urban, M.O. (652) 9)

Spinothalamic tract neuron; Strychnine; Bicuculline; Microdialysis; Spinal cord; Monkey (Lin, Q. (654) 286)

Cholecystokinin; α_2-Adrenergic; Dexmedetomidine; μ Opioid; Cholecystokinin-B antagonist; L365,260; PD135158; Spinal (Sullivan, A.F. (662) 141)

Epibatidine; Nicotine; Drug discrimination; Locomotor activity; Hypothermia (Damaj, M.I. (664) 34)

P_2-purinoceptor antagonist; Rat tail-flick test; Rat formalin test; α,β-Methylene ATP; 2-Methylthio-ATP; Intrathecal drug application (Driessen, B. (666) 182)

Chronic κ-agonist treatment; Tolerance; G protein; Low K_m GTPase; Protein kinase C (Feng, Y. (667) 133)

Antiopiate
Spinal cord; Receptor; Autoradiography; Neuropeptide FLFQPQRFamide; Human; Nociception (Allard, M. (633) 127)

Antioxidant
Methylprednisolone; Cell culture; Na^+,K^+-ATPase; Thiobarbituric acid-reactive substance (Anderson, D.K. (637) 119)

Anti-oxidant
12-*O*-Tetradecanoylphorbol-13-acetate; Neurotoxicity; Oxidative stress; Glutathione (Davis, J.B. (652) 169)

Anti-peptide antisera
Cellular expression; Basal ganglia; Limbic system (Ariano, M.A. (649) 95)

Antipsychotic
σ Opioid receptor; NCB20 cell; Haloperidol; Naloxone; Remoxipride; K channel (Morio, Y. (637) 190)

Uridine; Haloperidol; Conditioned avoidance; Schizophrenia (Myers, C.S. (651) 194)

Antipyresis
Arginine vasopressin; Blood pressure; Push–pull perfusion; Ventral septal area (Earle, M.L. (658) 15)

Antisense
Oligodeoxynucleotide; Opioid; Analgesia; κ Opioid receptor; Spiradoline (Adams, J.U. (667) 129)

Antitussive
Codeine; Diaphragm; Abdominal (Bolser, D.C. (662) 25)

Anxiety
Autonomic nervous system; Acoustic startle response; Elevated plus-maze; Locomotor activity; Social interaction; Stress (Inglefield, J.R. (633) 151)

Locus coeruleus, human; Locus coeruleus, electrical stimulation; Anxiogenesis; Norepinephrine, from human locus coeruleus (Libet, B. (634) 178)

Fear; Amygdala; Septum; Midazolam; Ro 15–1788; Receptor (Pesold, C. (638) 295)

Hippocampus; Asymmetry; Serotonin HT_{1A} receptor; 8-Hydroxy-DPAT; Locomotion; Learning; Memory (Belcheva, I. (640) 223)

Analgesia; Proglumide; CR1409; Cholecystokinin; Pain; Orienting response; Alerting; Hyperalgesia; Columnar organization (Liu, H. (642) 83)

Anxiolytic; Odor preference; Predator odor; Neurosteroid; 3α-Hydroxy-4-pregnen-20-one; GABA acid; GABA receptor (Kavaliers, M. (645) 325)

Acoustic startle response; Amygdala; Caudal pontine reticular nucleus; Central gray; Fear; Footshock; Periaqueductal gray; Rat; Sensitization (Fendt, M. (661) 163)

Anxiogenesis
Locus coeruleus, human; Locus coeruleus, electrical stimulation; Anxiety; Norepinephrine, from human locus coeruleus (Libet, B. (634) 178)

Anxiolytic
Anxiety; Odor preference; Predator odor; Neurosteroid; 3α-Hydroxy-4-pregnen-20-one; GABA acid; GABA receptor (Kavaliers, M. (645) 325)

Aortic depressor nerve
Acetylcholine; Methylatropine; Baroreflex; Microinjection (Tsukamoto, K. (648) 9)

AP4
Glutamate; Hippocampus; Quisqualate; Sensitization; CA1 pyramidal neuron; AP6; Excitatory amino acid; Excitatory amino acid (Schulte, M.K. (649) 203)

AP5
Excitatory amino acid; NMDA; AMPA; CPPene; 7-Chlorokynurenate; D-Serine; NBQX; CNQX; Neurotransmission (Qume, J.D.M. (649) 43)

AP6
Glutamate; Hippocampus; Quisqualate; Sensitization; CA1 pyramidal neuron; AP4; Excitatory amino acid; Excitatory amino acid (Schulte, M.K. (649) 203)

D-AP5
NMDA; Receptor; Development; Microiontophoresis in vitro hippocampus; Rat (Gorter, J.A. (665) 63)

Apamin
Circadian rhythm; Suprachiasmatic nucleus; Serotonin; K^+ channel; Charybdotoxin; Protein kinase A; cAMP (Prosser, R.A. (644) 67)

Ca^{2+}-activated K^+ channel; Prolactin secretion; Pituitary cell; Dopamine; Nifedipine; Perifusion; Charybdotoxin (Wang, X. (662) 83)

β/A4 peptide
Alzheimer's disease; Amyloid precursor protein; Endosomal/lysosomal pathway; Intracellular processing (Tsuzuki, K. (659) 213)

Apomorphine
Habenula; Stress; Fos; c-*fos*; Dopamine; Amphetamine; Amfonelic acid (Wirtshafter, D. (633) 21)

MK-801; Reserpine; *p*-CPA; L-DOPA; Catecholamine; Serotonin; Bladder reflex (Yoshiyama, M. (639) 300)

Substantia nigra pars reticulata; Dopamine; Rodent; Dopamine D_1 receptor; Dopamine D_2 receptor; Quinpirole; Striatonigral pathway (Yurek, D.M. (639) 329)

TIDA; Dopamine; Morphine; Haloperidol; Norepinephrine; Luteinizing hormone; Prolactin; Tuberoinfundibular (He, J.-R. (653) 1)

Serotonin; Norepinephrine; Microdialysis; Neostriatum; Parkinson's disease (Mandel, R.J. (653) 57)

Dopamine; Striatum; Cerebral asymmetry; Pharmacokinetics (Hyde, J.F. (655) 83)

Apoptosis
Retinoic acid; Protein kinase C; Sensory neuron (Mailhos, C. (644) 7)

Amyloid β peptide; Necrosis; PC12 cell; Nerve growth factor (Behl, C. (645) 253)

Cell death; Cortical neuron; DNA fragmentation; Ultrastructure (Takei, N. (652) 65)

Cerebellar granule neuron; Depolarization; Potassium; Excitotoxicity; Excitatory amino acid receptor (Weller, G.-M.Y.B.N.M. (656) 43)

Fas antigen; Cerebral ischemia; BALB/C mouse (Matsuyama, T. (657) 342)

MPP^+; PC12 cell; Nerve growth factor; S6 protein (Mutoh, T. (661) 51)

Ultrastructure; β-Amyloid; Neuron; Cell culture (Watt, J.A. (661) 147)

Transcription factor; Activator protein-1; Ischemia; CA1 subfield; Vulnerability (Yoneda, Y. (667) 54)

Aprikalim
Rat; Levcromakalim; Nitroglycerin; Endothelium-derived hyperpolarizing factor (Mayhan, W.G. (636) 35)

NMDA; Cerebral microcirculation; Sodium nitroprusside; Excitatory amino acid; Glutamate (Faraci, F.M. (654) 349)

AP1 transcription factor
Immediate early gene expression; *c-fos*; In situ hybridization; RT-PCR; Brain trauma (Yang, K. (664) 141)

Apurinic / apymidinic endonuclease
Suprachiasmatic nucleus; Supraoptic nucleus; Circadian rhythm; DNA repair; Fos (Rivkees, S.A. (666) 137)

APV
Hyperalgesia; Subcutaneous formalin; Tail-flick test; Spinal transection; Dorsolateral funiculus; NMDA; Nitric oxide; L-NAME; Rat (Wiertelak, E.P. (649) 19)

Arachidonic acid
Cyanide; Hypoxia; Protein kinase C; Inward current; Reticulospinal sympathoexcitatory neuron; Rostral ventrolateral medulla (Sun, M.-K. (636) 245)

Glutamate; AMPA receptor; Cerebellum; Hippocampus; Depression (Kovalchuk, Y. (643) 287)

Palmitic acid; Brain; Fatty acid; β-Oxidation; Phospholipid; Methyl palmoxirate (Freed, L.M. (645) 41)

Spinal reflex; Fusimotor neuron; Muscle spindle afferent; Muscle tonus; Work-related myalgia (Djupsjöbacka, M. (663) 293)

Arcuate nucleus
Olfactory bulb; Preoptic nucleus; Periventricular nucleus; Supraoptic nucleus; Paraventricular nucleus; Median eminence; Sympathetic activity (Vatta, M. (646) 324)

Dopamine; Double-labeling; Electron microscopy; Galanin; Hypothalamus; Immunocytochemistry; Interaction; TIDA; Tyrosine hydroxylase (Hrabovszky, E. (652) 49)

Tachykinin; Hypothalamus; Testosterone; Neurokinin A; Neuropeptide Y; Median eminence (Kalra, P.S. (653) 285)

Hypothalamus; Immediate early gene product; Immunocytochemistry; c-Fos; Proto-oncogene (Hoffman, G.E. (654) 207)

Neuropeptide Y; Galanin; cAMP; Paraventricular nucleus; Third ventricle (Akabayashi, A. (660) 323)

Corticosterone; Neuropeptide Y; Paraventricular nucleus; Hypothalamus; Neuropeptide Y receptor (Akabayashi, A. (665) 201)

c-Fos; Immunocytochemistry; Food deprivation; Neuropeptide Y; Northern blot; *ob/ob* mouse; Paraventricular nucleus (Mistry, A.M. (666) 53)

Area 17
Primate; Visual cortex; Somatosensory cortex; Corpus callosum; Development (Beck, P.D. (651) 57)

Area postrema
Serotonin receptor; Nucleus tractus solitarii; Emesis; Human brainstem (Ohuoha, D.C. (637) 222)

Commissural nucleus; Cardiovascular regulation; Sodium receptor; Sympathetic nervous system; Vagus (Hochstenbach, S.L. (644) 233)

Gastric relaxation; Control of gastric motility; Circumventricular organ; Vagus nerve; DL-Homocysteic acid (Bongianni, F. (646) 307)

Nucleus tractus solitarii; Arginine-vasopressin; Angiotensin II; Baroreflex; Brain slice (Cai, Y. (647) 242)

Estrous cycle; Glucoprivation; Lordosis; Metabolic fuel; Nucleus tractus solitarii; 2-Deoxy-D-glucose (Schneider, J.E. (661) 70)

Area TE
Memory; Inferotemporal cortex; Monkey; Visual memory; Extrastriate cortex; Learning (Sobotka, S. (646) 95)

Area tempestas
Epilepsy; GABA; Glutamate; Limbic seizure; Entorhinal cortex; Perirhinal cortex; Piriform cortex (Halonen, T. (652) 145)

Arecoline
Alzheimer's disease; Cerebral blood flow; Cerebral glucose metabolism; Hippocampus; Muscarinic receptor; Rat (Maiese, K. (641) 65)

Argentophilia
Dystrophic neurite; Tau; Paired helical filament; Immunocytochemistry; Neuropathology; Alzheimer's disease (Su, J.H. (637) 37)

L-Arginine
L-name HCl; Nitric oxide; Food intake; Chick (Choi, Y.-H. (654) 163)

Cerebral ischemia; Nitro-L-arginine; Cerebral blood flow; Systemic blood pressure; Dopamine metabolism (Strasser, A. (664) 197)

Arginine-vasopressin
Nucleus tractus solitarii; Angiotensin II; Area postrema; Baroreflex; Brain slice (Cai, Y. (647) 242)

Arginine vasopressin
Interleukin-2; Corticotropin-releasing hormone; Hypothalamus (Hillhouse, E.W. (650) 323)

Blood pressure; Antipyresis; Push–pull perfusion; Ventral septal area (Earle, M.L. (658) 15)

Arginine-vasotocin
Angiotensin II; Neuropeptide; Central nervous system; Heart rate; Blood pressure; Angiotensin AT_1 receptors; Trout (Le Mevel, J.-C. (654) 216)

Argyrophilic nucleolar region
Postnatal development; Undernutrition; Mammillary body; Rat (González-Pardo, H. (654) 75)

Arm movement
Motor cortex; Supplementary motor area (Bell, K.R. (655) 202)

Aromatase
Hypothalamus; Cortex; Cell culture; Immunocytochemistry; Sex difference; Regional-specific morphology; BALB/c mouse (Beyer, C. (638) 203)

Song system; Zebra finch; Sexual differentiation (Wade, J. (639) 347)

Aromatase cytochrome P-450
Human placental antigen X-P_2; Sexual dimorphism; Medial preoptic region; Bed nucleus of stria terminalis; Medial amygadaloid nucleus (Nagano, M. (634) 296)

Aromatase enzyme
Musk shrew; Immunocytochemistry; Sexual behavior; Limbic region; Estrogen receptor; Septum; Amygdala (Dellovade, T.L. (634) 141)

Aromatase inhibitor
Development; Frontal cortex; Testosterone; Estradiol; Dopamine; Noradrenaline; Perinatal life (Stewart, J. (646) 157)

Aromatase synthesis
Reproduction; Sexual behavior; Preoptic area; Japanese quail; *Coturnix japonica* (Foidart, A. (657) 105)

Aromatic L-amino acid decarboxylase
Suprachiasmatic nucleus; Immunohistochemistry; Trace amines; Sheep (Tillet, Y. (648) 319)

Fibroblast growth factor; Gliosis; Dopamine; Monoamine oxidase (Wang, J. (663) 199)

L-DOPA; Carbidopa; Dopamine; Serotonin neuron; Dorsal raphe nucleus; Rat (Arai, R. (667) 295)

Arousal
Circadian rhythm; Locomotor activity; Aging (Penev, P.D. (637) 255)

Arterial blood pressure
Rostral ventrolateral reticular nucleus; Epinephrine (Ruggiero, D.A. (663) 107)

Arterial chemoreceptor
Carotid body; Domperidone; Dopamine; Hyperoxia; Hypoxia (Iturriaga, R. (663) 145)

Arterial pressure
Spinal trigeminal nucleus; Rostral ventrolateral medulla; *c-fos*; Tyrosine hydroxylase; Nasopharyngeal reflex (Gieroba, Z.J. (636) 157)

Microinjection; Cardiovascular control; Single unit response; Glutamate; Nucleus tractus solitari (Calaresu, F.R. (655) 45)

Caudal ventrolateral medulla; A1 noradrenergic neuron; Hemorrhage; Vasopressin; Endocrinology (Gieroba, Z.J. (657) 330)

Losartan; Sympathetic nervous system; Angiotensin II; L-Glutamate; Vasomotor neuron; Genetic hypertension (Averill, D.B. (665) 245)

Arthritis
NADPH-diaphorase; Nitric oxide; Nitric oxide synthase; Inflammation; Nociception; Knee joint; Cat (Bscheidl, C. (668) 266)

Ascorbate
Hypothermia; Focal cerebral ischemia; Oxygen free radical; Glutathione; Postischemic hyperperfusion; Delayed postischemic hypoperfusion (Karibe, H. (649) 12)

Ascorbate oxidase
Neurotransmitter; Excitatory amino acid; Glutamate; Hippocampus; Dentate gyrus; Glutamate oxidase (Hu, Y. (659) 117)

Aspartate
Excitatory amino acid; Aggressive behavior; Midbrain periaqueductal gray; Cat; Amygdala; Glutamate; Defensive rage behavior (Shaikh, M.B. (635) 187)

Excitatory amino acid; Glutamate; Locus coeruleus; Microdialysis; Naltrexone; Opiate withdrawal (Aghajanian, G.K. (636) 126)

Electroencephalography; Excitatory amino acid; Glutamate; Rat; Secondary ischemia; Seizure activity; Traumatic brain injury (Nilsson, P. (637) 227)

MPTP; MPP^+; Glutamate; ATP; Energy metabolism; 2-Deoxyglucose; Parkinsonism (Chan, P. (647) 249)

Electric fish; Electrosensory lateral line lobe; Glutamate; Immunogold; Immunocytochemistry (Wang, D. (653) 215)

Inflammation; Hyperalgesia; Glutamate; Spinal cord; Dorsal horn; Microdialysis; Glycine; Serine (Sluka, K.A. (664) 77)

D-Aspartate
Methylmercuric chloride; Rubidium; -SH group; Astrocyte (Mullaney, K.J. (641) 1)

Rubidium; -SH group; Astrocyte; Hypotonicity; Regulatory volume decrease (Aschner, M. (648) 16)

Glucocorticoid; Ischemia; Hippocampus; Cell culture; Cyanide (Chou, Y.-C. (654) 8)

D-Aspartate binding
Motor neuron disease; Spinal cord; Glutamate transport; Autoradiography; Excitotoxicity (Shaw, P.J. (655) 195)

Aspartate taurine
Mercuric chloride; Methylmercury; Rat; Astrocyte; Glutathione (Aschner, M. (664) 133)

Association area
Non-pyramidal neuron; White matter; Sensory; Motor (Hashikawa, T. (641) 341)

Association cortex
Morphometry; Golgi; Basal dendrite; Development; Section thickness (Koenderink, M.J.Th. (653) 173)

Associative cortical territory
Calbindin; Calcium-binding protein; Striatum; Sensorimotor cortical territory; Macaque; Primate (François, C. (633) 331)

Associative learning
Locus coeruleus; Olfactory bulb; Norepinephrine; Dopamine; Serotonin; Memory; Rat pup (Sullivan, R.M. (643) 306)

Astrocyte
Catalase; Cytotoxicity; Free radical; Multiple sclerosis; Oligodendrocyte (Noble, P.G. (633) 83)

Glycogen; Brain metabolism; Glucose; Cardiopulmonary bypass (Eyre, J.A. (635) 349)

Phospholipase A_2; Cortex; Astrocytoma; Eicosanoid; Inflammation (Stephenson, D.T. (637) 97)

Interleukin-6; Interleukin-1β; Pituitary adenylate cyclase activating polypeptide; Vasoactive intestinal polypeptide (Gottschall, P.E. (637) 197)

Hepatocyte growth factor; c-Met protein; Microglia; Alzheimer's disease (Yamada, T. (637) 308)

Cerebral cortical neuron; Glutamate; Hypoxia; Ischemia; Lactate dehydrogenase; Reperfusion (Sochocka, E. (638) 21)

Methylmercuric chloride; D-Aspartate; Rubidium; -SH group (Mullaney, K.J. (641) 1)

Cerebral ischemia; Compartmentation; Glia; Neuron; ^{31}P NMR spectroscopy; pH (Sunagawa, S. (641) 328)

Axon; Calcium-mediated injury; Myelinated axon; Sodium channel; Tetrodotoxin (Waxman, S.G. (644) 197)

Primary culture; Cell volume; Peripheral-type benzodiazepine receptor; Hypoosmolarity (Itzhak, Y. (644) 221)

Calcium flux; Cellular calcium compartment; cAMD Dibutyryl; Hypoosmotic stress; Volume regulation (Bender, A.S. (645) 27)

Neuronal cell; Culture system; Humoral factor; Glutamate; Cytotoxicity; Protection (Amano, S. (645) 347)

D-Aspartate; Rubidium; -SH group; Hypotonicity; Regulatory volume decrease (Aschner, M. (648) 16)

Methamphetamine; Amfonelic acid; Tyrosine hydroxylase; Neurotoxicity (Pu, C. (649) 217)

Transplant; Olfactory bulb; Ensheathing cell; Laminin; Glia limitans (Doucette, R. (649) 334)

NMDA; Quinolinic acid; Excitotoxicity; Basal ganglia (Roberts, R.C. (650) 229)

Neurotrophic factor; Hypothalamus; Suprachiasmatic nucleus; Conditioned medium; Cultured neuron (Kawahara, F. (651) 101)

D-Amino acid oxidase; Localization; Glia; Rat brain; Central nervous system; Regional differentiation of astrocytes (Horiike, K. (652) 297)

Connexin43; Gap junction; Immunohistochemistry; Ischemia; Brain (Hossain, M.Z. (652) 311)

Fetal human brain culture; Heat shock protein 72; Heat stress; Microglia; Neuron; Oligodendrocyte (Satoh, J.-i. (653) 243)

Scrapie; Cytokine; Prostaglandin; Lipocortin; Mouse; Neurodegeneration (Williams, A.E. (654) 200)

Cell swelling; Sodium pump; Na^+,K^+,$2Cl^-$ Cotransport (Mongin, A.A. (655) 110)

Proliferation; Differentiation; Neuron; Humoral factor; Cell culture (Ohashi, M. (655) 255)

Epidermal growth factor; Transforming growth factor-α; Receptor; Medial septum; Neuron; Oligodendrocyte; Microglia (Mazzoni, I.E. (656) 115)

Interleukin-1β; Interleukin-6; Tumor necrosis factor-α; GM-CSF; M-CSF; Microglia (Mizuno, T. (656) 141)

Alzheimer's disease; Cytoskeleton; Extracellular matrix; Huntington's disease; Immunocytochemistry; Parkinson's disease (DeWitt, D.A. (656) 205)

Nerve growth factor; Nerve growth factor receptor; Prenatal exposure to ethanol (Vallés, S. (656) 281)

Synapse formation; Ca^{2+}-oscillation; Neuron; Co-culture (Nakanishi, K. (659) 169)

Amino acid release; Ammonium chloride; GABA; Glutamate; Hepatic encephalopathy; Taurine (Albrecht, J. (660) 288)

Inositol phosphate; Ca^{2+} mobilization; Purine; Pyrimidine (Pearce, B. (660) 329)

Primary culture; Dopamine; Serotonin; Norepinephrine; GABA; Glutamate; Peripheral benzodiazepine receptor (Itzhak, Y. (660) 346)

Adenosine uptake; BRL 34915; Ionophore; Ion; Omeprazole (Bender, A.S. (661) 1)

Calcium mobilization; Pituitary adenylate cyclase activating polypeptide; Intracellular communication; Second messenger (Tatsuno, I. (662) 1)

Ultrastructure; Glial fibrillary acidic protein; Circadian rhythm; Suprachiasmatic nucleus; Rat (Elliott, A.S. (662) 278)

Cerebellar granule cell; Cerebral cortical neuron; Deoxyglucose; Energy metabolism; Potassium (Peng, L. (663) 168)

Glia; Plasticity; Visual system; Deprivation; Afferent activity (Canady, K.S. (663) 206)

ATP; Azide; Fluoroacetate; Fluorocitrate; Glia; Glutamine; Glutamate uptake (Swanson, R.A. (664) 94)

Mercuric chloride; Methylmercury; Rat; Aspartate taurine; Glutathione (Aschner, M. (664) 133)

Chondroitin sulfate; Corpus callosum; Electron microscopy; Immunohistochemistry; Node of Ranvier; Rat; Spinal cord (Bjartmar, C. (667) 111)

Calcium; Glutamate; Glial fibrillary acidic protein; Kainic acid; Limbic seizure; Neurodegeneration; Neurotoxicity (Gramsbergen, J.-B.P. (667) 216)

Astrocyte reactivity
Serotonin; 5,7-Dihydroxytryptamine; Glial fibrillary acidic protein; Glutamine synthetase (Fages, C. (639) 161)

Astrocyte type I
Golgi apparatus; Brefeldin A; Glial fibrillary acidic protein; Astrocyte type II; MG-160; Electron microscopy; Immunohistochemistry; A2B5; HNK-1; Cell process (Lavi, E. (647) 273)

Astrocyte type II
Golgi apparatus; Brefeldin A; Glial fibrillary acidic protein; Astrocyte type I; MG-160; Electron microscopy; Immunohistochemistry; A2B5; HNK-1; Cell process (Lavi, E. (647) 273)

Astrocytoma
Phospholipase A_2; Astrocyte; Cortex; Eicosanoid; Inflammation (Stephenson, D.T. (637) 97)

Human NGIF; Neuroblastoma growth inhibitor; Neurotrophic factor; Neuron–glia interaction (Eksioglu, Y.Z. (644) 282)

Astroglia
Graft; Brain injury; Metabolism; Immunocytochemistry; Glucose (Rosenstein, J.M. (659) 277)

Cerebral ischemia; Ischemic tolerance; Microglia; Immunohistochemistry; Neuron–glia interaction; Hippocampus; Gerbil (Kato, H. (664) 69)

Astrogliosis
Adult human; Cytokine; Interferon; Interleukin; Proliferation; Tumor necrosis factor (Tejada-Berges, T. (653) 297)

Asymmetry
Transcranial magnetic stimulation; Human motor system; Handedness; Motor evoked potential (Triggs, W.J. (636) 270)

Dopamine; Striatum; Edge; Open field; Thigmotaxis; Neglect; 6-Hydroxydopamine lesion; Rotational behavior (Sullivan, R.M. (637) 114)

Hippocampus; Serotonin HT_{1A} receptor; 8-Hydroxy-DPAT; Locomotion; Learning; Memory; Anxiety (Belcheva, I. (640) 223)

Dopamine uptake; GBR-12935; Striatum; Rotation; Amphetamine (Gordon, I. (646) 207)

Ataxia
Hotfoot; Neurological mutation; Development; Monoamine; Amphetamine; Motor behavior; Thermoregulation (Draski, L.J. (645) 69)

3-Acetylpyridine; Inferior olive; Cerebellar cortex; $GABA_A$ receptor; $GABA_B$ receptor; Autoradiography (Kannari, K. (656) 413)

Atenolol
Intracerebral microdialysis; Condition; Brain; Rat; Acetaminophen; Pharmacokinetics; Blood–brain barrier (De Lange, E.C.M. (666) 1)

ATP
Cerebral anoxia; Cerebral ischemia; Depolarization; Hippocampus; Calcium; Sodium; Potassium (Kass, I.S. (633) 262)

Calcium; Bleb; Volume; Cortex (Friedman, J.E. (641) 57)

Cyclic guanosine 3′5′-monophosphate; Energy metabolite; Intracellular pH; Lactate; Phosphocreatine; Rat brain; Spreading depression (Gault, L.M. (641) 176)

Ischemia; Adrenal chromaffin cell; Catecholamine release; Intracellular free Ca^{2+} concentration; $^{45}Ca^{2+}$ uptake; Permeabilized cell (Itoh, A. (643) 266)

Glucocorticoid; Hippocampus; Hypoglycemia; Hypoxia; Neuron; Neuron death; Stress (Lawrence, M.S. (646) 303)

MPTP; MPP^+; Glutamate; Aspartate; Energy metabolism; 2-Deoxyglucose; Parkinsonism (Chan, P. (647) 249)

Glutamate; Neurotoxicity; Cultured neuron; Spinal cord (Tsuji, K. (662) 289)

Astrocyte; Azide; Fluoroacetate; Fluorocitrate; Glia; Glutamine; Glutamate uptake (Swanson, R.A. (664) 94)

(Na + K)ATPase
Adrenalectomy; Dexamethasone; In situ hybridization (Grillo, C. (657) 83)

ATP-sensitive K^+ channel
Sulfonylurea; Glibenclamide; Human brain; Parkinson's disease; Progressive supranuclear palsy; Huntington's disease (Holemans, S. (642) 327)

Atropine
Cerebral arteriole; Nitroglycerin; CGRP(8–37); Nitric oxide; NMDA (Faraci, F.M. (640) 93)

Theta rhythm; Hippocampus; Septum; Carbachol; Gallamine; Muscarinic M_2 receptor; Septal infusion (Monmaur, P. (656) 199)

Hemorrhagic shock; Oxotremorine; Muscarinic; Nicotinic; Mecamylamine; AV3V lesion (Onat, F. (660) 261)

Parafascicular neuron; Nociceptive suppression; Intrathecal administration; Norepinephrine; Serotonin; Naloxone (Li, Y.-J. (666) 113)

Atropine sulfate
Autospectral analysis; Baroreceptor denervation; Decerebrate cat; Physostigmine; Urethane anesthesia; 2–6-Hz oscillation (Orer, H.S. (661) 283)

Attention
Cerebellum volume; Novelty; Cognition; Molecular layer (Anderson, B. (641) 160)

Audiogenic seizure
Auditory development; Inferior colliculus; Tonotopic organization; Epilepsy; c-Fos (Pierson, M. (636) 55)

GABA; Inferior colliculus; Reticular formation; Seizure network; GABA uptake (Faingold, C.L. (640) 40)

Epilepsy; Genetically epilepsy-prone rat; Inferior colliculus; Synaptic inhibition (Li, Y. (660) 232)

Ethanol; Reticular formation; Seizure network; Startle; Habituation (Faingold, C.L. (663) 69)

Auditory
Intracortical; Multichannel recording; AI; Primary auditory cortex; Cognitive; Evoked potential (Javitt, D.C. (667) 192)

Auditory cortex
Slow-wave sleep; Basal forebrain; Nucleus basalis; Acetylcholine; Rat (Edeline, J.-M. (636) 333)

Somatosensory cortex; Evoked potential; Polysensory (Di, S. (642) 267)

Electrophysiology; Auditory-evoked potential; Horseradish peroxidase; Thalamocortical projection (Brett, B. (647) 65)

Auditory system; Spike activity; Acoustic stimulus; Descending inhibition; A_1 cortex (Piesman, M. (657) 320)

Tonotopic; Event-related field; Neuromagnetism; Magnetic source imaging; Interstimulus interval (Cansino, S. (663) 38)

Auditory development
Inferior colliculus; Tonotopic organization; Epilepsy; Audiogenic seizure; c-Fos (Pierson, M. (636) 55)

Enucleation; Auditory map; Directional hearing; Visual deprivation; Superior colliculus (Withington, D.J. (636) 348)

Auditory-evoked potential
Auditory cortex; Electrophysiology; Horseradish peroxidase; Thalamocortical projection (Brett, B. (647) 65)

Auditory map
Enucleation; Auditory development; Directional hearing; Visual deprivation; Superior colliculus (Withington, D.J. (636) 348)

Auditory neuron
c-*fos* immunocytochemistry; Sound stimulation (Qian, Y. (664) 241)

Auditory pathway
GABA; GABA receptor; Cochlear nucleus; Neurotransmitter (Juiz, J.M. (639) 193)

Auditory receptor
Development; Fetus; Overproduction; Organotypic culture (Abdouh, A. (660) 181)

Auditory selective attention
Cochlea; Otoacoustic emission; Efferent (Giard, M.-H. (633) 353)

Auditory stimulation
Amino acid transmitter; Acetylcholine; Acoustic startle response; Caudal pontine reticular nucleus; Laterodorsal tegmental nucleus; Pedunculopontine tegmental nucleus; Microiontophoresis (Kungel, M. (643) 29)

Auditory system
Spike activity; Acoustic stimulus; Descending inhibition; Auditory cortex; A_1 cortex (Piesman, M. (657) 320)

***Autographa californica* nuclear polyhedrosis virus**
Glutamate receptor; AMPA receptor; Baculovirus; AMPA-selective glutamate receptor α_2 subunit; Ligand-gated ion channel; *Spodoptera frugiperda* insect cell; *N*-Glycosylation (Hattori, S. (666) 43)

Autoimmune disorder
Glutamic acid decarboxylase; Insulin-dependent diabetes mellitus; Integral membrane protein; GABA (Nathan, B. (642) 297)

Autoimmunity
Parkinson's disease; Dopaminergic neuron; Complement; Serum (Defazio, G. (633) 206)

Autonomic
Immunotoxin; Sympathectomy; Dopamine β-hydroxylase; Saporin; Noradrenaline (Picklo, M.J. (666) 195)

Autonomic nerve
M-current; Inward rectification; G-protein; Inhibitory postsynaptic potential; Patch-clamp; Magnesium; Channel block (Kurenny, D.E. (658) 239)

Autonomic nervous system
Anxiety; Acoustic startle response; Elevated plus-maze; Locomotor activity; Social interaction; Stress (Inglefield, J.R. (633) 151)

Adrenergic fiber; Catecholamine; Histamine; Medulla oblongata; Pancreas; Parasympathetic nervous system; Pseudorabies virus; Raphe nucleus; Serotonin; Vagus nerve; Viral transneuronal labeling (Loewy, A.D. (638) 248)

Autonomic outflow
Neuropeptide Y; Paraventricular nucleus; Food intake; Cardiovascular regulation; Insulin; Norepinephrine; Nutrient storage (Van Dijk, G. (660) 96)

Autophagosome
Gomori glia; Peroxidase; Residual body; Iron; Transformed mitochondrion (Brawer, J.R. (633) 9)

Autoptic human brain
Serotonin 5-HT_{1A} receptor distribution; 8-Hydroxy-DPAT; mRNA expression (Marazziti, D. (658) 55)

Autoradiography
Spinal cord; Receptor; Neuropeptide FLFQPQRFamide; Antiopiate; Human; Nociception (Allard, M. (633) 127)

Binding study; Brain; Guinea pig; NK_1 receptor; Rat; Selective agonist; ^{3}H-[Pro^9]SP (Saffroy, M. (633) 317)

Immunocytochemistry; Transmitter uptake; Neuropeptide; Classical transmitter; Colocalization (Watt, C.B. (634) 317)

Hemicholinium-3; High-affinity choline uptake carrier; *N*-Methyl scopolamine; Muscarinic receptor; Muscarinic M_1 receptor; Parkinson's disease (Rodríguez-Puertas, R. (636) 327)

Globoid cell leukodystrophy; Krabbe disease; Demyelination; Peripheral nerve (Komiyama, A. (637) 106)

Goldfish; Excitatory amino acid; Kainate; Glutamate; AMPA; CNQX (Barnes, J.M. (637) 323)

Serotonin receptor; Serotonin 5-HT_{1D} receptor; Serotonin 5-HT_{1E} receptor; Human brain; Post-mortem; Serotonin (Barone, P. (638) 85)

Castration; Hamster; Hypothalamus; Oxytocin; Sex difference; Vasopressin (Dubois-Dauphin, M. (638) 267)

Quantitative immunocytochemistry; Monoclonal antibody; 6-Hydroxydopamine lesion; Striatum; Substantia nigra (Norman, A.B. (638) 352)

Dopamine receptor; Dopamine uptake site; L-DOPA; Rat; 6-Hydroxydopamine (Gnanalingham, K.K. (640) 185)

Platelet activating factor binding; Brain; Ischemia-reperfusion; Immunoreactive PAF concentration (Domingo, M.T. (640) 268)

Vitamin D receptor; Steroid hormone; Central nervous system; Choroid plexus; Turtle; Reptilia (Bidmon, H.-J. (640) 277)

Deoxysugar; Glutamate; Central nervous system depression; NBQX; LY-293558 (Browne, S.E. (641) 10)

Human motor cortex; Brainstem; Spinal cord; Non-NMDA receptor; Kainate binding; Excitotoxicity; Motor neuron disease (Shaw, P.J. (641) 39)

CI-977; κ Opioid receptor; CNS depression; 2-Deoxyglucose (Mackay, K.B. (642) 160)

Glutamate receptor; 6-Hydroxydopamine; Substantia nigra; Striatum; Parkinson's disease (Wüllner, U. (645) 98)

6-Hydroxydopamine; Quinolinic acid; Striatum; Substantia nigra; Tachykinin (Stoessl, A.J. (646) 13)

Tardive dyskinesia; Vacuous chewing movement; Neuroleptic; Dopamine; Dopamine receptor (Knable, M.B. (646) 217)

Tiagabine; GABA uptake carrier; Receptor (Suzdak, P.D. (647) 231)

Dopamine D_3 receptor; Dopamine; 7-Hydroxy-DPAT; Regional distribution; Human brain (Herroelen, L. (648) 222)

Antidromic activation; Biocytin; Brainstem slice; Non-specific current; Neuropeptide; Synaptic current; Oxytocin; Voltage clamp (Palouzier-Paulignan, B. (650) 117)

Wobbler mouse; Motor neuron disease; Spinal cord; Glutamate receptor (Tomiyama, M. (650) 353)

Development; Respiration; Receptor; Sheep; Fetus; Newborn; Adult; Birth (Tai, T.-C. (652) 28)

Cerebellum; Octavolateralis column; GABA; Cholinergic; Excitatory amino acid; Neurotensin; Opiate (Nicholson, L.F.B. (652) 40)

Adenosine; Receptor; Nucleus tractus solitari; Nodose ganglion; Vagal afferent; Microdialysis; Glutamate (Castillo-Meléndez, M. (652) 137)

Morphine; Genetics; Selective breeding; μ Opioid receptor (Mogil, J.S. (653) 16)

Fluid percussion; AFDX384; Acetylcholine; Pirenzipine; Hippocampus; Traumatic brain injury; Receptor binding (DeAngelis, M.M. (653) 39)

Neuronal calcium channel; Conopeptide; ω-Conotoxin; SNX-111 (ω-MVIIA) (Gohil, K. (653) 258)

Melatonin receptor; 2-Iodomelatonin binding; Chick; Visual system; Optic nerve transection (Krause, D.N. (654) 63)

Motor neuron disease; Spinal cord; Motor cortex; AMPA receptor; Kainate receptor; Excitotoxicity; Non-NMDA receptor (Shaw, P.J. (655) 186)

Motor neuron disease; Spinal cord; Glutamate transport; D-Aspartate binding; Excitotoxicity (Shaw, P.J. (655) 195)

3-Acetylpyridine; Inferior olive; Ataxia; Cerebellar cortex; $GABA_A$ receptor; $GABA_B$ receptor (Kannari, K. (656) 413)

NMDA receptor; $GABA_A$ receptor; Opiate receptor; Cerebral ischemia; Gerbil; Pentobarbital (Kanai, Y. (657) 51)

Global cerebral ischemia; Voltage-dependent calcium channel; Hippocampus; PN200-110 (isradipine); ω-Conotoxin GVIA (Perry, D.C. (657) 65)

Human midbrain; Basal ganglia; NMDA receptor; Non-NMDA receptor; MK-801 binding; Glycine binding; CNQX binding; Kainate binding (Ball, E.F. (658) 209)

[^{14}C]2-Deoxyglucose; Eliprodil; NMDA receptor; Polyamine site (Cudennec, A. (664) 41)

AMPA receptor; L-Glutamate; 2,3-Dihydro-6-nitro-7-sulfamoyl-benzo(f)-quinoxaline; AMPA; NS-257; Rat (Porter, R.H.P. (664) 202)

Protein kinase C; Second messenger; Ontogeny; Development; Rat; Hippocampus (Lee, E.J. (665) 127)

Rat basal forebrain; Muscarinic acetylcholine receptor; Glutamate receptor subtype; NMDA receptor; AMPA receptor; Kainate receptor; In situ hybridization; GABA receptor; Benzodiazepine receptor (Roßner, S. (668) 85)

Milnacipran; Paroxetine; Antidepressant-binding sites; Serotonin transporter; Lesion; 5,7-Dihydroxytryptamine (Barone, P. (668) 129)

Autoreceptor
Aminotetralin; D_2; D_3; Dopamine; 7-OH-DPAT; (±)-7-Hydroxy-*N*,*N*-dipropylaminotetralin; Receptor; Tyrosine hydroxylase (Booth, R.G. (662) 283)

α_2-Autoreceptor
Microdialysis; Noradrenaline overflow; Noradrenaline metabolite; Medial prefrontal cortex; Frontoparietal cortex; Amygdala; Hippocampus (Van Veldhuizen, M.J.A. (635) 238)

Neonatal propranolol; In vivo dialysis; Noradrenaline overflow; Catecholamine metabolism; Idazoxan (Van Veldhuizen, M.J.A. (646) 19)

Autoregulation
Local cerebral blood flow; Local cerebral glucose utilization; N^G-Nitro-L-arginine methyl ester; Hypertension; Sympathectomy (Kelly, P.A.T. (639) 309)

Hydrogen clearance; Blood flow; Sympathectomy (Zochodne, D.W. (649) 147)

Autoregulation of cerebral blood flow
Cerebral blood volume; Cerebral microvessel; Hypotension; N^G-monomethyl-L-arginine; Nitric oxide; Photoelectric method; Vascular tone (Kobari, M. (667) 255)

Autospectral analysis
Atropine sulfate; Baroreceptor denervation; Decerebrate cat; Physostigmine; Urethane anesthesia; 2–6-Hz oscillation (Orer, H.S. (661) 283)

Autotomy
Pain; Neuropathic pain; MK-801; Dizocilpine; Nerve injury (Baños, J.E. (636) 107)

Aversive motivation
Stress; Neocortex; Perseveration; Emotion (Sokolowski, J.D. (651) 293)

Avian brain
Vasotocin; Preoptic region; Lateral septum; *Coturnix japonica*; Immunocytochemistry; Quantitative analysis (Viglietti-Panzica, C. (657) 171)

Avoidance learning
Bombesin; Nucleus tractus solitari; Memory; Epinephrine; Radial arm maze (Williams, C.L. (654) 251)

AV3V lesion
Hemorrhagic shock; Oxotremorine; Muscarinic; Atropine; Nicotinic; Mecamylamine (Onat, F. (660) 261)

AV3V region
Water intake; Fluid balance; Electrolyte balance; Adrenergic receptor (Bastos, R. (636) 81)

Awake monkey
Sensory–motor convergence; Substantia nigra; Unit activity; Motor control; Polymodal sensory (Magariños-Ascone, C. (646) 299)

Awake rat
Fastigial nucleus; Blood pressure; Kainate; Anesthesia; Heart rate; Microdialysis (Parry, T.J. (635) 27)

Axon
Neurofilament protein; Cytoskeleton; Poisson distribution; Cluster analysis; Statistical model; Probability; Space-time clustering (Hsieh, S.-T. (642) 316)

Astrocyte; Calcium-mediated injury; Myelinated axon; Sodium channel; Tetrodotoxin (Waxman, S.G. (644) 197)

Vasoconstrictor; Biocytin; Intermediolateral cell column (Pilowsky, P. (656) 319)

Growth cone; Actin; Cell motility; Tyrosine kinase (Smalheiser, N.R. (660) 309)

Axonal elongation
Nerve transection; Regeneration; Ciliary neurotrophic factor; Growth cone formation (Sahenk, Z. (655) 246)

Axonal plasticity
Opioid peptide; Grand mal seizure; Mossy fiber; Human (Rees, H. (652) 113)

Axonal reinnervation
Schwann cell proliferation (Siironen, J. (654) 303)

Axonal tracing
Cerebellum; Basilar pons; Cerebellar afferent (Mihailoff, G.A. (648) 313)

Axonal transport
Vesicular stomatitis virus; BALB/c mouse; Immunohistochemistry; Intranasal infection; Accessory olfactory bulb; Amygdala–fugal pathway (Huneycutt, B.S. (635) 81)

Basal ganglia; Ferritin; Iron; Manganese; Neurotoxicity; Transferrin; Parkinson's disease (Sloot, W.N. (657) 124)

Axonal transport regulation
Axoplasmic transport; Adrenaline; Neurotransmitter; Superior cervical ganglion cell; Organelle motion; Potentiation (Takenaka, T. (643) 81)

Axon collateral
Respiration; Caudal nucleus retroambigualis; Expiratory neuron; Spinal cord; Brainstem (Sasaki, S.-I. (648) 229)

Axon elongation
3,5,3'-L-Triiodothyronine; Embryonic brain; Septum pellucidum; Neuron survival; Primary culture (Filipčik, P. (647) 148)

Axoplasmic transport
Adrenaline; Neurotransmitter; Superior cervical ganglion cell; Organelle motion; Axonal transport regulation; Potentiation (Takenaka, T. (643) 81)

2D electrophoresis; Protein release; Exocytosis; Vagus nerve; Nerve regeneration (Remgård, P. (663) 326)

Axotomy
β-Tubulin; Neurofilament gene expression; Regeneration; Dorsal root ganglion (Jiang, Y.Q. (637) 233)

Cytochrome oxidase; Regeneration; Motoneuron (Iannuzzelli, P.G. (637) 267)

Protein kinase C; Isozyme; Histochemistry; Vagus nerve; Hypoglossal nerve (Yamada, E. (639) 341)

Sprouting; Neurotrophic factor; Oligodendrocyte; Central nervous system (Weibel, D. (642) 259)

Nitric oxide; Acetylcholine; Carbachol; cGMP; Hemoglobin; Protein kinase C; Rat superior cervical sympathetic ganglia; Denervation (Ando, M. (650) 283)

Rat; Platelet-derived growth factor; Platelet-derived growth factor receptor; Vagus nerve; Degeneration (Yamada, E. (651) 108)

Inferior alveolar nerve; Neuropeptide Y; Trigeminal ganglion; Trigeminal sensory nuclear complex; Rat (Sasaki, Y. (664) 108)

Azide
Astrocyte; ATP; Fluoroacetate; Fluorocitrate; Glia; Glutamine; Glutamate uptake (Swanson, R.A. (664) 94)

B

B-HT 933
2-Deoxyglucose; Rilmenidine; Cerebral glucose utilization; Hypotension; Spontaneously hypertensive rat; Brainstem (Browne, S.E. (666) 216)

7B2
Prader-(Labhart)-Willi; Immunocytochemistry; Hypothalamus; Chromosome 15; Vasopressin-associated glycopeptide (Gabreëls, B.A.Th.F. (657) 281)

trkB
Dorsal root ganglion; Nerve injury; Neurotrophin; Immunocytochemistry (Foster, E. (659) 267)

Baclofen
Serotonin; GABA; 4-Aminopyridine; Burst discharge; Hilar neuron; Granule cell; Hippocampal slice (Ghadimi, B.M. (633) 27)

Dopamine; DOPAC; Nucleus accumbens; Ventral tegmental area; In vivo brain dialysis (Yoshida, M. (636) 111)

Double Y-maze; GABA; Memory; Muscimol; Nucleus basalis magnocellularis; Phaclofen; Reference memory; Working memory (DeSousa, N.J. (641) 29)

GABA transmission; CGP 35348; Vestibulo-oculomotor system; Opto-oculomotor system; Saccade; Pigmented rat (Niklasson, M. (649) 151)

Xanthine; Theophylline; Purine; Hippocampus; Carbamazepine; Calcium; Adenosine (Hosseinzadeh, H. (657) 300)

Piriform cortex; Laminar selectivity; Synaptic transmission; $GABA_B$ receptor; Intrinsic fiber (Tang, A.C. (659) 75)

Adenosine; Calcium-free; Sodium channel; Procaine; Carbamazepine (Hosseinzadeh, H. (659) 221)

GABA; $GABA_B$ receptor; CGP 35348; Retina; Amacrine cell; Ganglion cell (Tian, N. (660) 267)

GABA; Muscimol; Sodium current; Calcium current; *Helix pomatia* (Haarmeier, Th. (663) 131)

Bicuculline methiodide; Enkephalin; Estrogen; γ-Aminobutyric acid; $GABA_A$ receptor; $GABA_B$ receptor; Lordosis; THIP; Tonic inhibition; Ventromedial nucleus of hypothalamus (Ogawa, S. (666) 239)

Bacterial meningitis
Methylprednisolone; Pneumococcal meningitis; Cerebral blood flow; Brain edema; Intracranial pressure (Koedel, U. (644) 25)

Baculovirus
Glutamate receptor; AMPA receptor; AMPA-selective glutamate receptor α_2 subunit; Ligand-gated ion channel; *Spodoptera frugiperda* insect cell; *Autographa californica* nuclear polyhedrosis virus; *N*-Glycosylation (Hattori, S. (666) 43)

BALB/c mouse
Vesicular stomatitis virus; Immunohistochemistry; Intranasal infection; Axonal transport; Accessory olfactory bulb; Amygdala–fugal pathway (Huneycutt, B.S. (635) 81)

Aromatase; Hypothalamus; Cortex; Cell culture; Immunocytochemistry; Sex difference; Regional-specific morphology (Beyer, C. (638) 203)

BALB/C mouse
Apoptosis; Fas antigen; Cerebral ischemia (Matsuyama, T. (657) 342)

Ballooned neuron
Pick body; Complement membrane attack complex; Clusterin; Vitronectin; Protectin (Yasuhara, O. (652) 346)

BAPTA
Thyrotropin-releasing hormone; Neuromodulation; Resting K^+ conductance; Phorbol ester; Protein kinase C; IP_3; EGTA; Intracellular calcium; Forskolin; Adenylate cyclase (Bayliss, D.A. (668) 220)

Barium
Adenosine; γ-Aminobutyric acid; Hippocampus; Chloride; Muscimol (Akhondzadeh, S. (665) 229)

Baroreceptor denervation
Atropine sulfate; Autospectral analysis; Decerebrate cat; Physostigmine; Urethane anesthesia; 2–6-Hz oscillation (Orer, H.S. (661) 283)

Baroreceptor reflex
Circumventricular organ; Blood pressure; Hypertension (Lowes, V.L. (636) 165)

Defense reaction; Vigilance reaction; Hypothalamus; Medulla; Rabbit (Duan, Y.-F. (643) 218)

Caudal ventrolateral medulla; Rostral ventrolateral medulla; Fos immunoreactivity (Badoer, E. (657) 258)

Baroreflex
Nucleus tractus solitarii; Arginine-vasopressin; Angiotensin II; Area postrema; Brain slice (Cai, Y. (647) 242)

Acetylcholine; Methylatropine; Aortic depressor nerve; Microinjection (Tsukamoto, K. (648) 9)

Blood pressure; Heart rate; L-Glutamate; *p*-Chloromercuriphenylsalfonic acid; Phenylephrine; Rostral ventrolateral medulla; Conscious rat (Mao, L. (654) 343)

Barrel rotation
Flocculus; Copula pyramis; Inferior olive; Phosphoinositide; cGMP; Epilepsy model (Chew, B.H. (647) 345)

Basal dendrite
Morphometry; Association cortex; Golgi; Development; Section thickness (Koenderink, M.J.Th. (653) 173)

Basal forebrain
Slow-wave sleep; Nucleus basalis; Acetylcholine; Auditory cortex; Rat (Edeline, J.-M. (636) 333)

Acetylcholine; Ischemia; Nerve growth factor; Neurodegeneration; Nucleus basalis of Meynert (Liberini, P. (648) 1)

Acetylcholine; Microdialysis; Hippocampus; Dual probe; Glutamate; Receptor; Kainate; NMDA; Medial septum; Diagonal band; Septal stimulation (Moor, E. (648) 32)

Choline acetyltransferase; Parvalbumin; Septo-hippocampal system; Inbred mouse; Double labeling; Quantitative analysis (Linke, R. (653) 73)

Substantia innominata; Cortical blood flow; Cortical PO_2; Cortical PCO_2; Aging; Alzheimer's disease; Fischer 344 rat; Cerebral blood-flow regulation; Helium clearance; Physostigmine; Intrinsic cholinergic innervation (Sercombe, R. (662) 155)

192 IgG-saporin; Acetylcholine; Cortex (Holley, L.A. (663) 277)

Basal ganglia
Dopamine; Glutamate; Excitatory postsynaptic potential; Accumbens; Electrophysiology; Intracellular recording (O'Donnell, P. (634) 105)

Colocalization; In situ hybridization; Immunocytochemistry; Substantia nigra; Calretinin; Calbindin; Tyrosine hydroxylase (Heppelmann, B. (635) 293)

Superior colliculus; Subthalamic nucleus; Orienting behavior; *Phaseolus vulgaris*-leucoagglutinin; Fluoro–Gold (Tokuno, H. (639) 156)

Globus pallidus; Substantia nigra; Pedunculopontine tegmental nucleus; Dorsal raphe nucleus (Charara, A. (640) 155)

Cell adhesion; Immunoglobulin superfamily; Pain pathway; Limbic system; Circumventricular organ; Cerebral cortex; Development; Monoclonal antibody (Peduzzi, J.D. (640) 296)

Histamine; H_3 receptor; Subtype; Brain (Cumming, P. (641) 203)

High-voltage activated current; Opioid peptide; Whole-cell patch clamp (Stefani, A. (642) 339)

Electron microscopy; Immunohistochemistry; Substantia nigra; Tyrosine hydroxylase; Ultrastructure; Double labeling (Karle, E.J. (646) 149)

Neurotrophic effect; Huntington's disease; Explant culture (Ardelt, A.A. (647) 340)

Cellular expression; Limbic system; Antipeptide antisera (Ariano, M.A. (649) 95)

NMDA; Quinolinic acid; Excitotoxicity; Astrocyte (Roberts, R.C. (650) 229)

Neostriatum; Motor cortex; Caudate; Putamen; Pyramidal tract (Ryan, L.J. (651) 241)

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Bilateral inhibitory postsynaptic spike potential
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BQ-3020
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Alkaloid; Alzheimer's disease; Free radical; Fura-2; Neurodegeneration; Neurotrophic factor; Phosphorylation (Goodman, Y. (650) 170)

Alamar blue; Brain-derived neurotrophic factor; Glucose deprivation; Glutamate; Nerve growth factor (Cheng, B. (650) 331)

Alzheimer's disease; Amyloid peptide; Dichlorofluorescin; Free radical; Indomethacin; Iron-catalyzed oxidation; Lipoxygenase; Neurodegeneration (Goodman, Y. (654) 171)

Xanthine; Theophylline; Purine; Hippocampus; Baclofen; Carbamazepine; Adenosine (Hosseinzadeh, H. (657) 300)

Calcium channel; Edinger–Westphal nucleus; Ciliary ganglion; ω-Conotoxin; Calyciform terminal (Lucaj, Z. (660) 1)

Vasopressin; Hippocampus; Inositol trisphosphate; Vasopressin V_1 receptor; Neural peptide; Learning and memory; Nerve cell growth (Brinton, R.D. (661) 274)

αMSH; ACTH analog; cAMP; Dorsal root ganglia; Spinal cord; Schwann cell (Hol, E.M. (662) 109)

Subfornical organ; Organum vasculosum of the lamina terminalis; Cell culture; Immunocytochemistry; NADPH-diaphorase; Angiotensin II (Jurzak, M. (662) 198)

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Nicotinic acetylcholine receptor; Human; Rat; $\alpha_4\beta_2$-Transfected fibroblast; Brain (Court, J.A. (667) 118)

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Calcium antagonist
In vitro; Gonadotropin releasing hormone; Hypothalamus; Guinea pig; Veratridine; Tetrodotoxin (Giri, M. (648) 270)

Calcium-binding protein
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Reeler mutant mouse; Hippocampal slice; Parvalbumin; F3/F11 protein; Immunohistochemistry (Ishida, A. (662) 60)

Nitric oxide synthase; Calbindin; Parvalbumin; Calretinin; Excitotoxicity; AMPA/kainate (Dun, N.J. (666) 289)

Amygdala; Calretinin; Immunohistochemistry; Rat; Monkey (McDonald, A.J. (667) 238)

Tyrosine hydroxylase; Mesencephalon; Parkinson's disease; Human (Mouatt-Prigent, A. (668) 62)

Calcium binding protein
Vomeronasal organ; Calbindin-D28k; Neural; Neuroendocrine; Immunocytochemistry (Johnson, E.W. (638) 329)

GABA; Neuropeptide; Nitric oxide synthase; Colocalization (Kubota, Y. (649) 159)

NADPH-diaphorase; Calbindin-D28k; Huntington's disease; Nucleus accumbens; Core; Shell (Hussain, Z. (656) 191)

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Cerebellar cortex; Cerebellar nucleus; Mutant mouse; Inferior olive (Heckroth, J.A. (658) 93)

Somatosensory cortex; Non-pyramidal neuron; Basket cell; Thalamocortical afferent (McMullen, N.T. (660) 225)

Calcium / calmodulin-dependent protein kinase II
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Calcium / calmodulin-dependent protein kinase type IV
Immunohistochemistry; Peripheral nervous system; Rat (Sakagami, H. (666) 173)

Calcium channel
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Cortical wedge; Glutamate; Excitatory amino acid; ω-Conotoxin GVIA; ω-Agatoxin IVA; ω-Conotoxin MVIIC (Robichaud, L.J. (643) 352)

Ethanol; Adenosine receptor; Locomotor activity; Caffeine; Dihydropyridine (Daly, J.W. (650) 153)

Calcium; Edinger–Westphal nucleus; Ciliary ganglion; ω-Conotoxin; Calyciform terminal (Lucaj, Z. (660) 1)

Optical imaging; Calcium Green-dextran; Fluorescence; Lamprey (McClellan, A.D. (663) 61)

Neurohypophysis; Nerve terminal; Calcium channel blocker; Funnel-web spider toxin; ω-Conotoxin GVIA; Tetrandrine (Wang, G. (663) 215)

Calcium channel blocker
AF64A; Septohippocampal system; Cholinergic lesion; Spatial learning and memory; Nerve growth factor receptor; Acetylcholinesterase depletion (Maier, D.L. (648) 281)

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Calcium channel; Neurohypophysis; Nerve terminal; Funnel-web spider toxin; ω-Conotoxin GVIA; Tetrandrine (Wang, G. (663) 215)

Calcium current
Retina; Ganglion cell; Development; ω-CgTx; Nifedipine (Guenther, E. (633) 223)

Alcohol; Purkinje neuron; Development; Fetal alcohol syndrome; Central nervous system; Neuron (Gruol, D.L. (634) 283)

Nitric oxide; Nitric oxide synthase; NADPH-diaphorase; cGMP; Dorsal root ganglion; Development (Ward, S.M. (648) 249)

Outer hair cell; Guinea pig; Cisplatin; Ototoxicity; Whole-cell voltage clamp (Yamamoto, T. (648) 296)

Corticosterone; Mineralocorticoid receptor; Glucocorticoid receptor; Hippocampus; CA1 neuron; In situ patch clamp; Rat (Karst, H. (649) 234)

Alcohol withdrawal; Genetic model; Seizure; Hippocampus; Whole cell voltage clamp (Perez-Velazquez, J.L. (649) 305)

Albumin; Neuroblastoma (Schmitt, H. (656) 375)

GABA; Muscimol; Baclofen; Sodium current; *Helix pomatia* (Haarmeier, Th. (663) 131)

Calcium-dependent potassium current
Action potential; Chromaffin; Neuroendocrine; Repolarization; Whole-cell voltage-clamp (Pancrazio, J.J. (668) 246)

Calcium flux
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Calcium Green-dextran
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Calcium homeostasis
Calcium transport; Calcium permeability; Plasma membrane; Neurodegeneration; Brain aging (Colvin, R.A. (665) 192)

Calcium imaging
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Calcium-independent
Retina; Protein kinase C (Osborne, N.N. (637) 156)

Calcium-mediated injury
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Calcium mobilization
Astrocyte; Pituitary adenylate cyclase activating polypeptide; Intracellular communication; Second messenger (Tatsuno, I. (662) 1)

Calcium permeability
Calcium transport; Plasma membrane; Calcium homeostasis; Neurodegeneration; Brain aging (Colvin, R.A. (665) 192)

Calcium spike
Carotid body; Glomus cell; Intercellular coupling; Junctional current; Junctional conductance (Abudara, V. (664) 257)

Calcium transport
Calcium permeability; Plasma membrane; Calcium homeostasis; Neurodegeneration; Brain aging (Colvin, R.A. (665) 192)

Calmodulin
Central nervous system neuron; Flow cytometer; Oxidative metabolism; Reactive oxygen species; W-7 (Oyama, Y. (664) 220)

Calpain
G protein; Signal transduction; Lithium (Greenwood, A.F. (636) 320)

Focal cerebral ischemia; Spectrin; Proteolysis; Rat (Hong, S.-C. (661) 43)

Calphostin C
ADR activity; H7; Cell proliferation; Protein kinase C (Miñana, M.D. (667) 161)

Calretinin
Colocalization; In situ hybridization; Immunocytochemistry; Substantia nigra; Basal ganglia; Calbindin; Tyrosine hydroxylase (Heppelmann, B. (635) 293)

Parvalbumin; Tachykinin; Sensory nerve; Tooth pulp; Rat (Ichikawa, H. (647) 124)

Excitotoxicity; Calbindin D_{28K}; Hippocampal cell culture (Möckel, V. (648) 109)

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Parvalbumin; Carbonic anhydrase; Trigeminal ganglion; Dorsal root ganglion; Rat (Ichikawa, H. (655) 241)

Nitric oxide synthase; Calcium-binding protein; Calbindin; Parvalbumin; Excitotoxicity; AMPA/kainate (Dun, N.J. (666) 289)

Amygdala; Calcium-binding protein; Immunohistochemistry; Rat; Monkey (McDonald, A.J. (667) 238)

Calyciform terminal
Calcium; Calcium channel; Edinger–Westphal nucleus; Ciliary ganglion; ω-Conotoxin (Lucaj, Z. (660) 1)

Calyculin A
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CA1 neuron
Corticosterone; Mineralocorticoid receptor; Glucocorticoid receptor; Calcium current; Hippocampus; In situ patch clamp; Rat (Karst, H. (649) 234)

CA1 pyramidal cell
Kainate lesion; Intracellular recording and labeling; Neuronal structure; Neuronal reconstruction; Morphometry; Electrotonic modelling (Pyapali, G.K. (652) 279)

CA1 pyramidal neuron
Ischemic damage; NMDA component; Hippocampal slice; Stroke-prone spontaneously hypertensive rat; L-type Ca^{2+} channel blocker (Yasui, M. (642) 146)

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Serotonin 5-HT_3-like receptor; Hippocampus; Synaptic transmission; 2-Methyl-5-hydroxytryptamine; L-Glutamate (Zeise, M.L. (651) 337)

CA3 neuron
Caffeine; Xanthine; Adenosine receptor; Epilepsy; Paroxysmal depolarization shift (Moraidis, I. (640) 140)

CA3 pyramidal cell
Prenatal protein malnutrition; Hippocampus; Morphometric Golgi study; Malnutrition; Hippocampal formation (Díaz-Cintra, S. (662) 117)

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Neuromuscular; Quantum; Anandamide; cAMP; Synapse (Van der Kloot, W. (649) 181)

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Hypobaric hypoxia; Brain microcirculation; Angiogenesis; Vascular cast (Mironov, V. (660) 73)

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Piperine; Glossopharyngeal nerve; Electrophysiology; Cross-adaptation; Desensitization (Yoshii, K. (637) 68)

Rat; Ventral root; C-fiber; Electron microscopy; Immunohistochemistry; Plasma protein extravasation (Karlsson, M. (642) 244)

Descending facilitation; Descending inhibition; Tail flick reflex; Spinal dorsal horn neuron (Zhuo, M. (645) 164)

Sendide; Neurokinin NK_1 receptor; Morphine; Spinal cord; Mouse (Sakurada, T. (649) 319)

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Capsazepine
Resiniferatoxin autoradiography; Vanilloid receptor; Cooperative binding; Capsaicin (Szallasi, A. (655) 237)

Carbachol
Idazoxan; REM sleep; Brainstem; Norepinephrine (Bier, M.J. (634) 333)

Nucleus reticularis gigantocellularis; Sucrose gap; Population potential; Inhibition; Active sleep (Yamuy, J. (639) 313)

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Theta rhythm; Hippocampus; Septum; Atropine; Gallamine; Muscarinic M_2 receptor; Septal infusion (Monmaur, P. (656) 199)

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Carbamazepine
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Adenosine; Calcium-free; Sodium channel; Procaine; Baclofen (Hosseinzadeh, H. (659) 221)

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Aromatic L-amino acid decarboxylase; L-DOPA; Dopamine; Serotonin neuron; Dorsal raphe nucleus; Rat (Arai, R. (667) 295)

Carbohydrate
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Nucleus of the solitary tract; Fos-like immunoreactivity; Immunocytochemistry; Small intestine; Lipid (Zittel, T.T. (663) 266)

Carbon dioxide
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Carbonic anhydrase
Parvalbumin; Calretinin; Trigeminal ganglion; Dorsal root ganglion; Rat (Ichikawa, H. (655) 241)

Carbon monoxide
σ Opioid site; 1,3-Di-(2-tolyl)guanidine (DTG); Hypoxia; NMDA; Amnesia model (Maurice, T. (647) 57)

5-Carboxyamidotryptamine
Sodium appetite; Plasma renin activity; Hypotension; Fos-like immunoreactivity (Rowland, N.E. (664) 148)

Carboxylesterase
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Cardiac arrest
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β-Amyloid protein precursor; β-Amyloid peptide; Global cerebral ischemia; Clinical death; Stroke; Rat; Alzheimer's disease (Pluta, R. (649) 323)

Cardioacceleration
Intermediolateral nucleus; Glutamate; GABA; Immunocytochemistry; Spontaneously hypertensive rat; Rostral ventrolateral medulla; Caudal ventrolateral medulla (Miura, M. (638) 139)

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Astrocyte; Glycogen; Brain metabolism; Glucose (Eyre, J.A. (635) 349)

Cardiovascular
Glycine; GABA; Muscimol; Sympathetic preganglionic neuron; Microinjection (Madorin, W.S. (634) 13)

Cardiovascular control
Rostral ventrolateral medulla; Tyrosine hydroxylase; Biocytin; Intracellular electrophysiology; Respiratory control (Pilowsky, P. (633) 63)

Nucleus tractus solitarii; NPY(1–36); Neuropeptide Y_1 receptor agonist; Neuropeptide Y_2 receptor agonist; Adrenaline; Clonidine; Receptor autoradiography (Yang, S.-N. (654) 137)

Microinjection; Single unit response; Glutamate; Arterial pressure; Nucleus tractus solitari (Calaresu, F.R. (655) 45)

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Cardiovascular reflex pathway
Amygdala; Limbic system; Catecholaminergic cell group; A1 noradrenergic neurons (Ciriello, J. (663) 346)

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Neuropeptide Y; Paraventricular nucleus; Autonomic outflow; Food intake; Insulin; Norepinephrine; Nutrient storage (Van Dijk, G. (660) 96)

Cardiovascular response
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Carnosine
Glutamate; Excitatory amino acid; Aminoacylhistidine dipeptide; Hair cell; Frog semicircular canal; Immunocytochemistry (Panzanelli, P. (662) 293)

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Glomus cell; Calcium spike; Intercellular coupling; Junctional current; Junctional conductance (Abudara, V. (664) 257)

Carrageenan
Pain; Dorsal horn; Hyperalgesia; Nitric oxide; Nitric oxide synthase (Traub, R.J. (647) 113)

Carrageenan Inflammation
Immunoreactive cGMP; Immunoreactive cAMP; Dorsal horn; Hyperalgesia (Garry, M.G. (646) 135)

Carrier
Choline; β-Amyloid; Alzheimer's disease; Leakage; Acetylcholine; Brain; Neuron; PC12 cell (Galdzicki, Z. (646) 332)

Ca spike
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Calcitonin gene-related peptide; Spinal nucleus of the bulbocavernosus; Mouse; Genotype (Wagner, C.K. (647) 37)

Cytokine; Tachykinin; Interleukin-1; Hypothalamus; Neurokinin A; Luteinising hormone (Kalra, P.S. (662) 178)

CA1 subfield
Transcription factor; Activator protein-1; Ischemia; Vulnerability; Apoptosis (Yoneda, Y. (667) 54)

Cat
Excitatory amino acid; Aggressive behavior; Midbrain periaqueductal gray; Amygdala; Glutamate; Aspartate; Defensive rage behavior (Shaikh, M.B. (635) 187)

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Pontine respiratory group; Kölliker-Fuse nucleus; Neural control of respiration; Intracellular recording; In vivo (Dick, T.E. (636) 259)

Nodulus; Afferent projection; Vestibular nucleus (Akaogi, K.-i. (638) 12)

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Masseter motoneuron; Bilateral inhibitory postsynaptic spike potential; Supratrigeminal; Inhibitory premotor neuron; Bifurcating axon; Neurobiotin; Spike-triggered averaging (Kamogawa, H. (639) 85)

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Active sleep; Nucleus pontis oralis; Microiontophoresis; Acetylcholine; Neostigmine (López-Rodríguez, F. (649) 271)

Nigrothalamic projection; Substantia nigra; Mediodorsal nucleus; Prefrontal cortex; Electrophysiology (Miyamoto, Y. (649) 313)

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Norepinephrine; Visual cortex; Velocity selectivity; Orientation selectivity; Iontophoresis (McLean, J. (667) 83)

NADPH-diaphorase; Nitric oxide; Nitric oxide synthase; Inflammation; Nociception; Arthritis; Knee joint (Bscheidl, C. (668) 266)

Cat adrenal chromaffin cell
Cytosolic free calcium; Fura-2 microfluorometry; Cytosolic free sodium; SBFI microfluorometry; Cd^{2+}; Co^{2+} (Yamagami, K. (646) 295)

Catalase
Astrocyte; Cytotoxicity; Free radical; Multiple sclerosis; Oligodendrocyte (Noble, P.G. (633) 83)

NGF; Hydrogen peroxide; Oxidant resistance; Glutathione peroxidase; PC12; Cell death (Jackson, G.R. (634) 69)

D-Amino acid oxidase; Edematous change; Hydrogen peroxide; Spongiform encephalopathy; Zitter rat (Gomi, H. (653) 66)

Catalepsy
Accumbens; Dopamine; GABA; Haloperidol; Microdialysis; Neostriatum; Tolerance (Osborne, P.G. (634) 20)

Haloperidol; Dopamine; Glutamate; NMDA receptor; Caudate-putamen; Rat (Yoshida, Y. (639) 139)

Locomotion; Opiate; PPTg; Brainstem (Olmstead, M.C. (662) 134)

Catecholamine
NMDA; Kainate; Excitatory amino acid; Stress; Glucose production; Glucose utilization; Epinephrine; Glucagon; Insulin; Corticosterone; Rat (Molina, P.E. (634) 41)

N-Methyl-D-aspartate; Kainate; Excitatory amino acid; Glucose production; Glucose utilization; Glucagon; Corticosterone; Insulin; Rat (Yousef, K.A. (634) 131)

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Adrenergic fiber; Autonomic nervous system; Histamine; Medulla oblongata; Pancreas; Parasympathetic nervous system; Pseudorabies virus; Raphe nucleus; Serotonin; Vagus nerve; Viral transneuronal labeling (Loewy, A.D. (638) 248)

MK-801; Reserpine; *p*-CPA; L-DOPA; Serotonin; Apomorphine; Bladder reflex (Yoshiyama, M. (639) 300)

Insulin; Ventral tegmental area; Substantia nigra pars compacta; Dopamine transporter; In situ hybridization (Figlewicz, D.P. (644) 331)

Pain; Brainstem; Antinociception; Rostral ventrolateral medulla; Dorsal horn (Siddall, P.J. (645) 61)

SK-N-SH cell; Norepinephrine; Opioid; Opioid receptor; Neurotransmitter release (Keren, O. (646) 319)

Locus ceruleus; Macaque monkey; Substantia nigra; Tyrosine hydroxylase (Lewis, D.A. (656) 1)

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Brain injury; Head trauma; Recovery of function; Plasticity (Dunn-Meynell, A. (660) 88)

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HPA axis; Morphine; Hypothalamus; Reserpine; Adrenergic blocking drug (Martinez-Piñero, M.G. (668) 122)

Catecholamine metabolism
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Catecholamine release
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Catecholaminergic autoreceptor
Adrenergic cell; Serotonergic cell; Central autonomic pathway; Vasomotor regulation; Blood pressure; Bulbospinal pre-sympathetic neuron; Clonidine; CNS acting sympatholytic drug (Guyenet, P.G. (638) 285)

Catecholaminergic cell group
Central nucleus of the amygdala; Bed nucleus of the stria terminalis; Ventrolateral medulla; C1 adrenergic cell group; Central cardiovascular pathway (Roder, S. (638) 182)

Amygdala; Limbic system; A1 noradrenergic neurons; Cardiovascular reflex pathway (Ciriello, J. (663) 346)

Catecholaminergic phenotype
Neuronal expression; Neuroblastoma P_2; Cholinergic phenotype; cAMP (Kentroti, S. (651) 1)

Catechol structure
Tryptophan hydroxylase; Condensation product; Dihydroxy-tetrahydroisoquinoline; Tetrahydro-β-carboline; MPTP; MPP^+ (Matsubara, K. (655) 121)

Cathepsin E
Human brain; Alzheimer's disease; Immunohistochemistry (Bernstein, H.-G. (667) 287)

Cat-induced analgesia
Amygdala; Classically conditioned analgesia; Shock-induced analgesia (Fox, R.J. (648) 215)

Cation independent mannose-6-phosphate receptor
Insulin-like growth factor; Cholinergic neuron; Insulin-like growth factor II receptor; Neurotrophic factor; Choline acetyltransferase (Konishi, Y. (649) 53)

Cattle
Thirst; Cellular dehydration; Angiotensin II; Losartan; Brain sodium concentration; Sheep; Rabbit; Rat; Mouse (Blair-West, J.R. (637) 335)

Caudal hindbrain
Glucose sensor; Glucose transporter; GLUT 2; Reverse transcription-polymerase chain reaction; Immunocytochemistry; Hypothalamus; Glucostatic theory (Leloup, C. (638) 221)

Caudal hypothalamus
Cobalt chloride; Excitatory amino acid; Kynurenic acid; Rat; Respiration (Horn, E.M. (664) 25)

Caudal nucleus retroambigualis
Respiration; Expiratory neuron; Axon collateral; Spinal cord; Brainstem (Sasaki, S.-I. (648) 229)

Caudal pontine reticular nucleus
Amino acid transmitter; Acetylcholine; Acoustic startle response; Laterodorsal tegmental nucleus; Pedunculopontine tegmental nucleus; Microiontophoresis; Auditory stimulation (Kungel, M. (643) 29)

Acoustic startle response; Amygdala; Anxiety; Central gray; Fear; Footshock; Periaqueductal gray; Rat; Sensitization (Fendt, M. (661) 163)

Caudal raphe nucleus
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Caudal ventrolateral medulla
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Rostral ventrolateral medulla; Baroreceptor reflex; Fos immunoreactivity (Badoer, E. (657) 258)

A1 noradrenergic neuron; Hemorrhage; Vasopressin; Arterial pressure; Endocrinology (Gieroba, Z.J. (657) 330)

Caudate
Neostriatum; Basal ganglia; Motor cortex; Putamen; Pyramidal tract (Ryan, L.J. (651) 241)

Norepinephrine; Dopamine; Amphetamine; Cocaine; Clonidine; Prefrontal cortex; Hippocampus; Microdialysis (Florin, S.M. (654) 53)

Caudate nucleus
Spontaneously hypertensive rat; Wistar–Kyoto rat; Electrolytic lesion; Substantia nigra; Blood pressure; Dopamine; In vitro superfusion (Linthorst, A.C.E. (639) 261)

Intrinsic circuitry; EPSP; IPSP; Cat (Wilson, J.S. (654) 41)

Human brain; Dopamine; Monoamine; Putamen; Ventral striatum; Striosome; Matrix (Lehéricy, S. (659) 1)

Caudate-putamen
Catalepsy; Haloperidol; Dopamine; Glutamate; NMDA receptor; Rat (Yoshida, Y. (639) 139)

Amphetamine; Dopamine; Intracranial self-stimulation; Reward; Reinforcement; Nucleus accumbens; Curve shift (Ranaldi, R. (642) 251)

A-77636; Amphetamine; Brain stimulation reward; Cortex; Dopamine D_1 agonist; Dopamine D_2 agonist; Dopamine receptor; Nucleus accumbens; Quinpirole; Rat; Reinforcement (Ranaldi, R. (651) 283)

Cholecystokinin octapeptide; Cholecystokinin tetrapeptide; Nucleus accumbens; Dopamine; DOPAC; Homovanillic acid; In vivo microdialysis; Rat (Kariya, K. (657) 1)

Caudate putamen
Circadian rhythm; Adenosine triphosphate; Suprachiasmatic nucleus; Anterior hypothalamic area; Rat; Metabolic activity (Yamazaki, S. (664) 237)

Caudodorsal cell
Peptide processing and electrical activity; Peptide release by exocytosis; Quantitative immunoelectron microscopy; *Lymnaea stagnalis* (Roubos, E.W. (644) 83)

CCK-8
Morphine analgesia; Nucleus accumbens; CCK-A receptor; CCK-B receptor (Pu, S.-F. (657) 159)

β-Endorphin; Cholecystokinin octapeptide; DNA synthesis; Growth; Development (Bartolome, J.V. (661) 19)

CCK8 and ceruletide
Thermoregulation; PGE_1 fever; Central vs. peripheral effect; L364,718; L365,260 (Szelényi, Z. (638) 69)

CCK-A receptor
Morphine analgesia; CCK-8; Nucleus accumbens; CCK-B receptor (Pu, S.-F. (657) 159)

CCK-B receptor
Mastomys natalensis; Northern hybridization; In situ hybridization; Telencephalon; Cerebral cortex (Shigeyoshi, Y. (640) 81)

Morphine analgesia; CCK-8; Nucleus accumbens; CCK-A receptor (Pu, S.-F. (657) 159)

CCK_B receptor
C6 glioma cell; Binding study; Intracellular calcium mobilization (Kaufmann, R. (639) 109)

CCK-8s
Stress; CRF; Central amygdala; Colon; Rat (Gué, M. (658) 232)

Cd^{2+}
Cat adrenal chromaffin cell; Cytosolic free calcium; Fura-2 microfluorometry; Cytosolic free sodium; SBFI microfluorometry; Co^{2+} (Yamagami, K. (646) 295)

cdc2-related protein kinase
CDK5; Cyclin-dependent protein kinase; CDK; In situ hybridization; Neuron; Development (Ino, H. (661) 196)

[^{14}C]2-Deoxyglucose
Autoradiography; Eliprodil; NMDA receptor; Polyamine site (Cudennec, A. (664) 41)

CDK
CDK5; cdc2-related protein kinase; Cyclin-dependent protein kinase; In situ hybridization; Neuron; Development (Ino, H. (661) 196)

CDK5
cdc2-related protein kinase; Cyclin-dependent protein kinase; CDK; In situ hybridization; Neuron; Development (Ino, H. (661) 196)

CELIFA
Alzheimer's disease; Biomarker; Ubiquitin; Cerebrospinal fluid; Enzyme-linked immunosorbent assay; ELISA; Competitive enzyme-linked immunoflow assay (Kudo, T. (639) 1)

Cell adhesion
Immunoglobulin superfamily; Pain pathway; Basal ganglia; Limbic system; Circumventricular organ; Cerebral cortex; Development; Monoclonal antibody (Peduzzi, J.D. (640) 296)

Cell adhesion molecules
Focal cerebral ischemia; Neutrophil; Edema; Infarction (Matsuo, Y. (656) 344)

Cell attachment
Integrin; Hydrogen peroxide; Intracellular ATP; Intracellular Ca^{2+}; PC12 cell (Zhang, Z. (662) 189)

Cell culture
Calcium; Cerebral cortex; Excitotoxicity; Glutamate; Head trauma; Neurotoxicity (Regan, R.F. (633) 236)

Neuro–glia interaction; Mutant mouse; S-100β; Serotonin; Growth factor (Ueda, S. (633) 284)

Glia; Convulsant; DMCM; Benzodiazepine; Patch-clamp (Rosewater, K. (636) 73)

Chondroitin sulfate; Proteoglycan; Protective action; Cell death; Excitotoxicity; Glutamate; Cortical neuron (Okamoto, M. (637) 57)

Methylprednisolone; Antioxidant; Na^+,K^+-ATPase; Thiobarbituric acid-reactive substance (Anderson, D.K. (637) 119)

Circadian pacemaker; Calcium; Fura-2; Oscillator; Opisthobranch mollusk; Manganese (Geusz, M.E. (638) 109)

Aromatase; Hypothalamus; Cortex; Immunocytochemistry; Sex difference; Regional-specific morphology; BALB/c mouse (Beyer, C. (638) 203)

Transforming growth factor-β; Neuronal survival; Neurite sprouting; Process elongation; Hippocampal neuron (Ishihara, A. (639) 21)

Chemical synapse; Electrical synapse; Conditional bursting; Synapse formation; Circuit (Magoski, N.S. (645) 201)

β-Endorphin; Hypothalamus; Neuron; Adenylyl cyclase; Glucocorticoid (Yang, Z. (648) 99)

Circadian rhythm; Melatonin; Pineal gland (Murakami, N. (651) 209)

Glucocorticoid; Ischemia; Hippocampus; Cyanide; D-Aspartate (Chou, Y.-C. (654) 8)

Astrocyte; Proliferation; Differentiation; Neuron; Humoral factor (Ohashi, M. (655) 255)

Brain-derived neurotrophic factor; Dopaminergic; Survival; Rat; Human (Zhou, J. (656) 147)

Adult cat; Carotid body; Defined medium; Dopamine; Hypoxia; Immunohistochemistry; Tyrosine hydroxylase (Shirahata, M. (658) 60)

Apoptosis; Ultrastructure; β-Amyloid; Neuron (Watt, J.A. (661) 147)

Subfornical organ; Organum vasculosum of the lamina terminalis; Immunocytochemistry; NADPH-diaphorase; Angiotensin II; Calcium (Jurzak, M. (662) 198)

Chemically patterned substrate; Self-assembled monolayer; Neuritic process orientation; Electrical stimulation; Neuroblastoma cell (Matsuzawa, M. (667) 47)

Cell death
NGF; Hydrogen peroxide; Oxidant resistance; Catalase; Glutathione peroxidase; PC12 (Jackson, G.R. (634) 69)

Chondroitin sulfate; Proteoglycan; Protective action; Excitotoxicity; Glutamate; Cell culture; Cortical neuron (Okamoto, M. (637) 57)

Excitotoxicity; Granule cell culture; Ion substitution; Calcium (Dessi, F. (650) 49)

Apoptosis; Cortical neuron; DNA fragmentation; Ultrastructure (Takei, N. (652) 65)

Limbic seizure; Status epilepticus; Heat shock protein; Epileptic cell death; NMDA; Substantia nigra; Epilepsy (Tanaka, K. (660) 192)

Neuroblast; Growth factor; Neurogenesis; Cell division; Nerve growth factor; Insulin (Pincus, D.W. (663) 51)

Cell division
Neuroblast; Growth factor; Neurogenesis; Cell death; Nerve growth factor; Insulin (Pincus, D.W. (663) 51)

Cell fate
Striatal graft; Allograft; Huntington's disease; Neuronal regeneration; DARPP-32; Calbindin; Acetylcholinesterase; Tyrosine hydroxylase (Deacon, T.W. (668) 211)

Cell line
TRH; Neuroblastoma; IMR32 pyroglutamyl-glutamyl-prolineamide; Neuron; Differentiation (Rondeel, J.M.M. (665) 262)

Cell migration
Bergmann glia; In situ hybridization (Mendis, D.B. (633) 197)

Cell motility
Growth cone; Axon; Actin; Tyrosine kinase (Smalheiser, N.R. (660) 309)

Cell process
Golgi apparatus; Brefeldin A; Glial fibrillary acidic protein; Astrocyte type I; Astrocyte type II; MG-160; Electron microscopy; Immunohistochemistry; A2B5; HNK-1 (Lavi, E. (647) 273)

Cell proliferation
ADR activity; H7; Calphostin C; Protein kinase C (Miñana, M.D. (667) 161)

Cell size
Retrograde degeneration; Substantia nigra pars compacta; Excitotoxin; Striatum; Tyrosine hydroxylase (Lundberg, C. (644) 205)

Cell spreading
Glioma cell; Integrin; Vitronectin receptor; Fibronectin receptor; Focal contact; Chemotaxis; Gliosis (Umezawa, K. (659) 23)

Cell survival
2-Mercaptoethanol; Human serum; Neurofilament 210 kDa; Oxidative stress; Fetal mouse brain (Katayama, M. (656) 409)

Cell swelling
Astrocyte; Sodium pump; Na^+,K^+,$2Cl^-$ Cotransport (Mongin, A.A. (655) 110)

Cellular calcium compartment
Astrocyte; Calcium flux; cAMD Dibutyryl; Hypoosmotic stress; Volume regulation (Bender, A.S. (645) 27)

Cellular dehydration
Thirst; Angiotensin II; Losartan; Brain sodium concentration; Cattle; Sheep; Rabbit; Rat; Mouse (Blair-West, J.R. (637) 335)

Cellular expression
Basal ganglia; Limbic system; Anti-peptide antisera (Ariano, M.A. (649) 95)

Cell volume
Primary culture; Astrocyte; Peripheral-type benzodiazepine receptor; Hypoosmolarity (Itzhak, Y. (644) 221)

Central amygdala
Stress; CRF; CCK-8s; Colon; Rat (Gué, M. (658) 232)

Central amygdaloid nucleus
Bed nucleus of the stria terminalis; Substantia innominata; Tyrosine hydroxylase; Norepinephrine; Dopamine β-hydroxylase (Freedman, L.J. (633) 243)

Central auditory pathway
Binaural response; Medial geniculate body; Middle latency response (Littman, T. (640) 286)

Central auditory system
Cytochrome oxidase; Quantitative histochemistry; Gerbil (Gonzalez-Lima, F. (660) 34)

Central autonomic pathway
Adrenergic cell; Serotonergic cell; Catecholaminergic autoreceptor; Vasomotor regulation; Blood pressure; Bulbospinal presympathetic neuron; Clonidine; CNS acting sympatholytic drug (Guyenet, P.G. (638) 285)

Central canal
Dorsal horn; Hyperalgesia; Lamina X; Pain (Traub, R.J. (668) 204)

Central cardiovascular pathway
Central nucleus of the amygdala; Bed nucleus of the stria terminalis; Ventrolateral medulla; Catecholaminergic cell group; C1 adrenergic cell group (Roder, S. (638) 182)

Central catecholamine
Antibody response; Corticosterone (Shanks, N. (666) 77)

Central chemoreceptor
Cat; Breathing control; Medulla oblongata; Fos immunohistochemistry (Teppema, L.J. (635) 353)

Central cholinergic system
Acetylcholinesterase; Brain; Rat; Monkey; Positron emission tomography; Alzheimer's disease; Nucleus basalis magnocellularis (Namba, H. (667) 278)

Central gray
Acoustic startle response; Amygdala; Anxiety; Caudal pontine reticular nucleus; Fear; Footshock; Periaqueductal gray; Rat; Sensitization (Fendt, M. (661) 163)

Central motor system
Glucagon receptor; Energy balance; Limbic system; Duck (Montaron, A. (663) 121)

Central nervous system
Alcohol; Purkinje neuron; Development; Calcium current; Fetal alcohol syndrome; Neuron (Gruol, D.L. (634) 283)

Interleukin-6 mRNA; Interleukin-6 receptor mRNA; RT-PCR; Development (Gadient, R.A. (637) 10)

Vitamin D receptor; Steroid hormone; Choroid plexus; Turtle; Reptilia; Autoradiography (Bidmon, H.-J. (640) 277)

Sprouting; Neurotrophic factor; Axotomy; Oligodendrocyte (Weibel, D. (642) 259)

Development; G protein; Adenylyl cyclase (Rius, R.A. (643) 50)

Brain; Neuron; Aging (Yang, G. (644) 188)

D-Amino acid oxidase; Localization; Astrocyte; Glia; Rat brain; Regional differentiation of astrocytes (Horiike, K. (652) 297)

Transient forebrain ischemia; Development; Gerbil hippocampus; Heatshock protein 70; Delayed neuronal death (Soriano, M.A. (653) 191)

Angiotensin II; Arginine-vasotocin; Neuropeptide; Heart rate; Blood pressure; Angiotensin AT_1 receptors; Trout (Le Mevel, J.-C. (654) 216)

Interleukin-1β; Hyperalgesia; Wide dynamic range neuron; Interleukin-1 receptor antagonist; α-Melanocyte stimulating hormone; Prostaglandin E_2; Pain (Oka, T. (656) 236)

Prostaglandin E_2; Thermal hyperalgesia; Analgesia; Pain; M&B28767; 17-Phenyl-ω-trinor PGE_2 (Oka, T. (663) 287)

Gastrin-releasing peptide; Satiety; Hypothalamus; Feeding; Push–pull perfusion (Plamondon, H. (668) 54)

Central nervous system control of gastrointestinal transit
Corticotropin releasing factor; Locus coeruleus; Gastric emptying; Colonic transit; Stress (Mönnikes, H. (644) 101)

Central nervous system depression
Deoxysugar; Glutamate; NBQX; LY-293558; Autoradiography (Browne, S.E. (641) 10)

Central nervous system neuron
Calmodulin; Flow cytometer; Oxidative metabolism; Reactive oxygen species; W-7 (Oyama, Y. (664) 220)

Central nucleus
Amygdala; Basolateral complex; Lidocaine; Inhibitory avoidance; Learning; Memory; Retention (Parent, M.B. (661) 97)

Central nucleus of the amygdala
Bed nucleus of the stria terminalis; Ventrolateral medulla; Catecholaminergic cell group; C1 adrenergic cell group; Central cardiovascular pathway (Roder, S. (638) 182)

Nucleus of solitary tract; Parabrachial nucleus; *Phaseolus vulgaris* leucoagglutinin; Degeneration; Electron microscope; Rat (Jia, H.-G. (663) 181)

Substantia innominata; Bed nucleus of stria terminalis; Parabrachial nucleus; Vagal nucleus; Diagonal ventral forebrain continuum (Schmued, L.C. (667) 175)

Central pattern generator
Locomotion; Excitatory amino acid; Lamprey; Command system (Hagevik, A. (636) 147)

Vomiting; Retrofacial nucleus; Cerebellum; Brainstem (Miller, A.D. (647) 255)

Medium-frequency oscillation; Bicuculline; Phrenic; Hypoglossal; Piglet (Steele, A.M. (650) 166)

Central sensitization
Stimulation-produced analgesia; Morphine microinjection; Periaqueductal gray; Formalin pain; Plasticity (Vaccarino, A.L. (666) 104)

Central vs. peripheral effect
Thermoregulation; CCK8 and ceruletide; PGE_1 fever; L364,718; L365,260 (Szelényi, Z. (638) 69)

Cerebellar afferent
Cerebellum; Basilar pons; Axonal tracing (Mihailoff, G.A. (648) 313)

Cerebellar cortex
3-Acetylpyridine; Inferior olive; Ataxia; $GABA_A$ receptor; $GABA_B$ receptor; Autoradiography (Kannari, K. (656) 413)

Cerebellar nucleus; Mutant mouse; Inferior olive; Calcium binding protein (Heckroth, J.A. (658) 93)

Cerebellar development
Organotypic culture; Granule cell migration; Parallel fiber; Purkinje cell; Synapse formation; Spatiotemporal pattern (Tanaka, M. (641) 319)

Cerebellar granule cell
Polychlorinated biphenyl congener; Phosphoinositide hydrolysis; [^{3}H]Phorbol ester binding (Kodavanti, P.R.S. (662) 75)

Astrocyte; Cerebral cortical neuron; Deoxyglucose; Energy metabolism; Potassium (Peng, L. (663) 168)

Cerebellar granule cell neuron
Anoxia; Cerebral cortical neuron; Glutamate; Glutamine; Glutaminase (Huang, R. (660) 129)

Cerebellar granule neuron
Depolarization; Potassium; Apoptosis; Excitotoxicity; Excitatory amino acid receptor (Weller, G.-M.Y.B.N.M. (656) 43)

Cerebellar neuron
Ca^{2+}; Methylmercury; Reactive oxygen species; Oxidative metabolism (Oyama, Y. (660) 154)

N,*N*-Diethyldithiocarbamate; 2′,7′-Dichlorofluorescin diacetate; Ionomycin; Oxidative metabolism (Oyama, Y. (660) 158)

Cerebellar nucleus
Cerebellar cortex; Mutant mouse; Inferior olive; Calcium binding protein (Heckroth, J.A. (658) 93)

Cerebellum
D-Serine; Distribution; Vertebrate; Brain; Cerebrum; NMDA receptor; D-Amino-acid oxidase (Nagata, Y. (634) 291)

Neurotrophic factor; Transferrin; Hippocampus; Myelin; Iron; Neurodevelopment (Dickinson, T.K. (635) 169)

Microtubule; Neurofilament protein; Intracellular transport; Neuronal discharge; Electrophysiology; Electron microscopy (Seil, F.J. (636) 87)

Purkinje cell; Muscarinic receptor; GABA; Neuromodulation (Andre, P. (637) 1)

Corticosteroid Type I receptor; Corticosteroid Type II receptor; Mineralocorticoid receptor; Hippocampus; Cortex; Hypothalamus; Cortisol (Brooke, S.M. (637) 303)

Synapse elimination; Maps formation; Purkinje cell; Climbing fiber; X-irradiation; Vibrissa (Fuhrman, Y. (638) 277)

Lurcher mutant; Motor coordination; Motor learning (Lalonde, R. (639) 351)

[^{3}H]QNB binding; Homogenate; Hippocampus; Neocortex; Brainstem; Traumatic brain injury; Fluid percussion (Lyeth, B.G. (640) 240)

Brain; Hippocampus; Transcription factor; Regulatory protein; c-*fos*; c-*jun*; Seizure; Metrazole; CREB; Sensory cortex; Limbic cortex; Gel-shift; EMSA; Supershift (Łukasiuk, K. (643) 227)

Glutamate; Arachidonic acid; AMPA receptor; Hippocampus; Depression (Kovalchuk, Y. (643) 287)

Basilar pontine nucleus; Rat; Paraflocculus; Vermis; Stripe (Serapide, M.F. (644) 175)

Alzheimer's disease; Adenylyl cyclase; Hippocampus; Adenosine A_1-receptor; G protein; Coupling; Signal transduction (Schnecko, A. (644) 291)

Vomiting; Central pattern generator; Retrofacial nucleus; Brainstem (Miller, A.D. (647) 255)

Basilar pons; Cerebellar afferent; Axonal tracing (Mihailoff, G.A. (648) 313)

Myelin; Myelin deficiency; Demyelination; Multiple sclerosis; Seizure; Tremor (Rosenbluth, J. (650) 85)

Ferritin; Microglia; Subarachnoidal hemorrhage; Iron; *Rinis communis* agglutinin (Ozawa, H. (651) 345)

Autoradiography; Octavolateralis column; GABA; Cholinergic; Excitatory amino acid; Neurotensin; Opiate (Nicholson, L.F.B. (652) 40)

Discrimination; Reversal conditioning; Eyelid conditioning; Multiple-unit recording; Rabbit (Gould, T.J. (652) 98)

3-Methoxytyramine; Dopamine release; Hippocampus; Electroconvulsive shock; Haloperidol; Mass fragmentography (Chrapusta, S.J. (655) 271)

Aging; Free radical; Norepinephrine (Gould, T.J. (660) 333)

Ganglioside; Purkinje cell; Mutant mouse; Glycolipid; Electron microscopy; Monoclonal antibody (Yamamoto, M. (662) 223)

Brain spectrin; Erythroid spectrin; Nonerythroid spectrin; Polarization; Neuronal cytoskeleton; Spectrin isoform (Clark, M.B. (663) 223)

Endothelin; Guanine nucleotide; Receptor subtype (Jarvis, M.F. (665) 33)

Benzodiazepine; Electrophysiology; Diazepam-insensitive receptor (Pringle, A.K. (665) 222)

Plasticity; Renin angiotensin; Angiotensinogen mRNA; Bergmann glial cell (Lippoldt, A. (668) 144)

Cerebellum volume
Attention; Novelty; Cognition; Molecular layer (Anderson, B. (641) 160)

Cerebral anoxia
Cerebral ischemia; Depolarization; Hippocampus; Calcium; Sodium; Potassium; ATP (Kass, I.S. (633) 262)

Cerebral arteriole
Nitroglycerin; CGRP(8–37); Atropine; Nitric oxide; NMDA (Faraci, F.M. (640) 93)

Cerebral asymmetry
Apomorphine; Dopamine; Striatum; Pharmacokinetics (Hyde, J.F. (655) 83)

Cerebral blood flow
Electroencephalogram; Propagation; Limbic system; Kainate; Hippocampus; Seizure (Goto, Y. (634) 203)

Cerebral glucose utilization; Hypoxia; Rostral ventrolateral medulla; Rat (Underwood, M.D. (635) 217)

Naftidrofuryl oxalate; Serotonin 5-HT_2 antagonist; Neuronal damage; Gerbil; Cerebral ischemia (Fujikura, H. (636) 103)

Alzheimer's disease; Arecoline; Cerebral glucose metabolism; Hippocampus; Muscarinic receptor; Rat (Maiese, K. (641) 65)

Extracellular pH; Hypercapnia; Indomethacin; N^G-Nitro-L-arginine (Wang, Q. (641) 257)

Epilepsy; Kindling; Benzodiazepine receptor; Iomazenil; Hexamethylpropylene amine oxime (Kurokawa, K. (642) 303)

Methylprednisolone; Pneumococcal meningitis; Bacterial meningitis; Brain edema; Intracranial pressure (Koedel, U. (644) 25)

Cerebral circulation; Cerebral cortex; Acetylcholine; Microvessels; Double immunofluorescence; Immunocytochemistry (Chédotal, A. (646) 181)

Brain ischemia; Diethyldithiocarbamate; Electron paramagnetic resonance; Nitric oxide; Reperfusion (Sato, S. (647) 91)

Thrombolytic therapy; Recombinant tissue plasminogen activator; Stroke; Rat; Hypothermia; Hyperthermia; Cerebral ischemia (Meden, P. (647) 131)

Cortical spreading depression; NMDA antagonist (Willette, R.N. (648) 347)

NMDA receptor; Cerebral glucose utilisation; MK801; CGS19755 (Sharkey, J. (651) 27)

Flow-metabolic coupling; Hemoglobin oxygenation state; Sleep–wake cycle; REM sleep; Cerebral oxygen metabolic rate (Hoshi, Y. (652) 257)

Bicuculline; Nitric oxide; NMDA receptor; Seizure (Wang, Q. (658) 192)

Blood–brain barrier glucose transporter; Kinetic constant; GLUT1 isoform; Quantitative immunogold electron microscopy; Luminal and abluminal membrane; Neonate; Suckling; Weanling and adult; Developmental upregulation; Permeability-surface area product (Cornford, E.M. (663) 7)

Cerebral ischemia; L-Arginine; Nitro-L-arginine; Systemic blood pressure; Dopamine metabolism (Strasser, A. (664) 197)

Cerebral blood-flow regulation
Basal forebrain; Substantia innominata; Cortical blood flow; Cortical PO_2; Cortical PCO_2; Aging; Alzheimer's disease; Fischer 344 rat; Helium clearance; Physostigmine; Intrinsic cholinergic innervation (Sercombe, R. (662) 155)

Cerebral blood volume
Autoregulation of cerebral blood flow; Cerebral microvessel; Hypotension; N^G-monomethyl-L-arginine; Nitric oxide; Photoelectric method; Vascular tone (Kobari, M. (667) 255)

Cerebral circulation
Cerebral cortex; Acetylcholine; Microvessels; Cerebral blood flow; Double immunofluorescence; Immunocytochemistry (Chédotal, A. (646) 181)

Fluid percussion brain injury; Opioid (Armstead, W.M. (660) 19)

Cerebral cortex
Calcium; Cell culture; Excitotoxicity; Glutamate; Head trauma; Neurotoxicity (Regan, R.F. (633) 236)

GABA; Parvalbumin; Development; Lizard (Martínez-Guijarro, F.J. (634) 168)

Kallikrein; Kallikrein–kinin system; Rat brain; Neuron; Brainstem (Kizuki, K. (634) 305)

CCK-B receptor; *Mastomys natalensis*; Northern hybridization; In situ hybridization; Telencephalon (Shigeyoshi, Y. (640) 81)

Cell adhesion; Immunoglobulin superfamily; Pain pathway; Basal ganglia; Limbic system; Circumventricular organ; Development; Monoclonal antibody (Peduzzi, J.D. (640) 296)

Acetylcholine; Glutamate; NMDA; Neuroprotection; Nicotine; Primary culture (Akaike, A. (644) 181)

Cerebral circulation; Acetylcholine; Microvessels; Cerebral blood flow; Double immunofluorescence; Immunocytochemistry (Chédotal, A. (646) 181)

Olfaction; Sensory; Bulbectomy; Olfactory marker protein; Regeneration; Reinnervation (Hendricks, K.R. (648) 121)

Olfaction; Sensory; Olfactory marker protein; Regeneration; Reinnervation; Olfactory nerve; Transplantation (Hendricks, K.R. (648) 135)

Non-shivering thermogenesis; Prostaglandin E_1; Brown adipose tissue; Sympathetic activity; Oxygen consumption; Body temperature (Monda, M. (651) 148)

GABA; Parvalbumin; Lizard (Blasco-Ibáñez, J.M. (652) 334)

Ischemia; Indomethacin; Glutamate; Adenosine (Phillis, J.W. (652) 353)

Nerve growth factor; Neurotrophin; Neuropeptide Y; Vasoactive intestinal polypeptide; Hippocampal formation (Lapchak, P.A. (654) 1)

Local circuit neuron; Nitric oxide; NADPH-diaphorase (Fischer, H.C. (654) 105)

Brain LH/hCG receptor; Sleep–wake phase; Behavior; PGD_2; PGE_2; Medial preoptic area; Hippocampus (Toth, P. (654) 181)

Epilepsy; Immunocytochemistry; GABA; Glia; Noradrenaline; Serotonin; Choline acetyltransferase (Araneda, S. (655) 135)

Vasoactive intestinal polypeptide; Peptide histidine isoleucine; Peptide histidine valine; Suprachiasmatic nucleus; Peptide processing; Vasoactive intestinal polypeptide precursor; Circadian; Mouse (Mikkelsen, J.D. (656) 95)

Hypoxia-ischemia; Rat; Perinatology; Glutamic acid decarboxylase; GABA; Epilepsy; Confocal laser scanning microscopy; Immunofluorescence (Romijn, H.J. (657) 245)

Mongolian gerbil; Rat; Lectin binding; Parvalbumin (Brückner, G. (658) 67)

Ca^{2+}/calmodulin-dependent protein kinase II; CaM kinase II; Hippocampus; Basal ganglia; Thalamus (Ochiishi, T. (659) 179)

NMDA; Rat; Connection; Synapse; Cortical slice; Visual system (Currie, S.N. (662) 103)

Glutamate; Neuroprotection; Nitric oxide; *N*-Methyl-D-aspartate; Primary culture; Prostaglandin (Akaike, A. (663) 237)

Olfactory bulbectomy; Amygdala; 2-Deoxyglucose; Brain slice (Shibata, S. (665) 147)

Alzheimer's disease; β-Amyloid; Antibody; Striatum (Mak, K. (667) 138)

Cerebral cortical neuron
Astrocyte; Glutamate; Hypoxia; Ischemia; Lactate dehydrogenase; Reperfusion (Sochocka, E. (638) 21)

Anoxia; Cerebellar granule cell neuron; Glutamate; Glutamine; Glutaminase (Huang, R. (660) 129)

Astrocyte; Cerebellar granule cell; Deoxyglucose; Energy metabolism; Potassium (Peng, L. (663) 168)

Cerebral edema
Cerebral ischemia; Middle cerebral artery occlusion; Free radical; α-Phenyl-*N*-tert-butyl nitrone (Cao, X. (644) 267)

Cerebral endothelial cell
Nitric oxide; NADPH-diaphorase; Neuron; Neuropathology; Soman (Bouchaud, C. (660) 249)

Cerebral energy metabolism
2-Deoxyglucose; Development; Chronic treatment; Diazepam; Benzodiazepine (Schroeder, H. (660) 144)

Cerebral glucose metabolism
Alzheimer's disease; Arecoline; Cerebral blood flow; Hippocampus; Muscarinic receptor; Rat (Maiese, K. (641) 65)

Cerebral glucose utilisation
NMDA receptor; Cerebral blood flow; MK801; CGS19755 (Sharkey, J. (651) 27)

Cerebral glucose utilization
Cerebral blood flow; Hypoxia; Rostral ventrolateral medulla; Rat (Underwood, M.D. (635) 217)

2-Deoxyglucose method; Adrenalectomy; Corticosterone; Limbic system (Doyle, P. (655) 115)

2-Deoxyglucose; Rilmenidine; B-HT 933; Hypotension; Spontaneously hypertensive rat; Brainstem (Browne, S.E. (666) 216)

Cerebral infarction
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Cerebrovascular control
Amphetamine abuse; Methylenedioxymethamphetamine; Local cerebral blood flow; Cerebrovascular accident (Kelly, P.A.T. (665) 315)

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***p*-Chloroamphetamine**
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7-Chlorokynurenate
Excitatory amino acid; NMDA; AMPA; AP5; CPPene; D-Serine; NBQX; CNQX; Neurotransmission (Qume, J.D.M. (649) 43)

7-Chlorokynurenic acid
Seizure; Glutamate; Amygdala; Rat; D-Cycloserine; (+)-HA-966 (Rundfeldt, C. (653) 125)

***p*-Chloromercuriphenylsalfonic acid**
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Cholecystokinin; α_2-Adrenergic; Dexmedetomidine; μ Opioid; L365,260; PD135158; Spinal; Antinociception (Sullivan, A.F. (662) 141)

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Cholecystokinin tetrapeptide; Nucleus accumbens; Caudate-putamen; Dopamine; DOPAC; Homovanillic acid; In vivo microdialysis; Rat (Kariya, K. (657) 1)

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Cholecystokinin receptor
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Choline acetyl transferase
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Cholineacetyltransferase
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Choline acetyltransferase
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Choline acetyltransferase mRNA
Choline acetyltransferase; Muscarinic M_1 receptor; Muscarinic M_1-R mRNA; Parallelism; Aged rat brain; Bifemelane hydrochloride (Ogawa, N. (658) 87)

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Vitamin D receptor; Steroid hormone; Central nervous system; Turtle; Reptilia; Autoradiography (Bidmon, H.-J. (640) 277)

Brain; Hippocampus; Blood–brain barrier; Zinc; Manganese; Essential trace metal (Takeda, A. (640) 341)

Cerebrospinal fluid; Blood–brain barrier; Zinc; Manganese; Essential trace metal (Takeda, A. (658) 252)

Endothelium; Food mutagen; P450; β-Naphthoflavone; Ellipticine (Brittebo, E.B. (659) 91)

Transferrin; Transthyretin; 5-Hydroxytryptamine; Meninges; Sympathetic nerve; Raphe nucleus; Cerebrospinal fluid (Blay, P. (662) 148)

Chorthippus mollis
Identified interneuron; Double labeling; Subesophageal ganglion; Homologous neuron; *Omocestus viridulus* (Lins, F. (635) 103)

Chromaffin
Action potential; Calcium-dependent potassium current; Neuroendocrine; Repolarization; Whole-cell voltage-clamp (Pancrazio, J.J. (668) 246)

Chromaffin cell
Neuropathic pain; Hyperalgesia; Nitric oxide; Neural transplantation; Spinal cord (Hama, A.T. (640) 345)

α-Bungarotoxin; Fura-2; Nicotinic acetylcholine receptor (Afar, R. (641) 127)

Hyperalgesia; Naloxone; Neural transplantation; Peripheral neuropathy; Phentolamine (Hama, A.T. (651) 183)

Chromogranin A
Lewy body; Parkinson's disease; Synaptophysin; Immunohistochemistry; Immunoelectron microscopy (Nishimura, M. (634) 339)

Chromosome 15
Prader-(Labhart)-Willi; 7B2; Immunocytochemistry; Hypothalamus; Vasopressin-associated glycopeptide (Gabreëls, B.A.Th.F. (657) 281)

Chronic cocaine
N_1 amplitude-intensity function; N_1 latency-intensity function; Tyrosine hydroxylase (Shivapuja, B.G. (668) 230)

Chronic depolarization
Neurotoxicity; Calcium; NMDA; Kainate; Electrophysiology (Tymianski, M. (648) 291)

Chronic epileptogenicity
Status epilepticus; Kindling; Neurophysiology; Perforant path; Dentate gyrus; Spontaneous generalized convulsion (Shirasaka, Y. (655) 33)

Chronic hypoxia
Immature brain; Receptor; Regulation; Saxitoxin; Sodium channel (Xia, Y. (635) 339)

Chronic κ-agonist treatment
Antinociception; Tolerance; G protein; Low K_m GTPase; Protein kinase C (Feng, Y. (667) 133)

Chronic morphine
Morphine withdrawal; β-Adrenoceptor; Ca^{2+}-activated potassium afterhyperpolarization; Pyramidal neuron; Hippocampal slice (Ackerman, J.M. (656) 309)

Chronic pain
Frontal cortex; Limbic system; Cold pressor; Analgesia (Backonja, M. (639) 337)

Chronic preparation
Long-term potentiation; Long-term depression; Neocortex; Memory; Paired-pulse inhibition; Cholinergic; Enriched environment (Racine, R.J. (637) 83)

Chronic recording
Single unit; Somatosensory cortex; Deafferentation; Cortical reorganization; Nerve transection; Electrophysiology (Salimi, I. (656) 263)

Chronic social stress
Locomotor activity; Amphetamine self-administration (Lemaire, V. (649) 348)

Chronic stress
Adaptation; Catecholamine; DOPAC; Adrenocorticotropic hormone; Corticosterone; Glucose (Lachuer, J. (638) 196)

Chronic treatment
2-Deoxyglucose; Development; Diazepam; Benzodiazepine; Cerebral energy metabolism (Schroeder, H. (660) 144)

CI-977
κ Opioid receptor; Autoradiography; CNS depression; 2-Deoxyglucose (Mackay, K.B. (642) 160)

Ciliary ganglion
Acetylcholine response; Muscarinic M_3 receptor; Chick embryo (Furukawa, K. (657) 185)

Calcium; Calcium channel; Edinger–Westphal nucleus; ω-Conotoxin; Calyciform terminal (Lucaj, Z. (660) 1)

Ciliary neurotrophic factor
Metabolic rate; Signal transduction; SH-SY5Y cell; Cytosensor system (Johnson, R.M. (646) 327)

Nerve transection; Regeneration; Axonal elongation; Growth cone formation (Sahenk, Z. (655) 246)

Nerve growth factor; PC12 cell; Pheochromocytoma (Zhong, W. (661) 56)

Cingulate
Serotonin; Supragenual; Prefrontal cortex; Excitatory amino acid; Glutamatergic; Corticocortical; Spiperone (Read, H.L. (643) 17)

Cingulate cortex
Positron emission tomography; Regional cerebral blood flow; Taste stimulation; Insular cortex (Kinomura, S. (659) 263)

Cingulate lesion
Cholinergic neural transplant; Acetylcholinesterase; Fimbria-fornix lesion; Medial fimbria lesion; Spatial reference memory; Spatial working memory; Activity (Dalrymple-Alford, J.C. (661) 243)

Circadian
Age; Djungarian hamster; Hypothalamus; Immunocytochemistry; Neuropeptide; *Phodopus sungorus*; Rhythm; Photoperiod; Sex; Substance P; Suprachiasmatic nucleus (Reuss, S. (638) 189)

Aging; Graft; Rhythm; Activity; Benzodiazepine (Van Reeth, O. (643) 338)

Serotonin; Suprachiasmatic nucleus; Entrainment; Light; DPAT; Metergoline; 5-CT; NAN-190; SDZ 216-525; Propranolol; 5-HT_{1A} receptor (Ying, S.-W. (651) 37)

Vasoactive intestinal polypeptide; Peptide histidine isoleucine; Peptide histidine valine; Suprachiasmatic nucleus; Cerebral cortex; Peptide processing; Vasoactive intestinal polypeptide precursor; Mouse (Mikkelsen, J.D. (656) 95)

Circadian oscillator
Melatonin; Fura-2; cAMP; Thapsigargin; Secretion (D'Souza, T. (656) 85)

Circadian pacemaker
Calcium; Fura-2; Oscillator; Opisthobranch mollusk; Cell culture; Manganese (Geusz, M.E. (638) 109)

Gastrin releasing peptide; Peptide histidine isoleucine; Light; Phase–response curve; Entrainment (Peters, R.V. (639) 217)

Circadian rhythm
Entrainment; Mammal; Suprachiasmatic nucleus (Kaufman, C.M. (633) 162)

Retina; Dorsal raphe nucleus; Periaqueductal gray; Serotonin; Sleep; Wakefulness; Tract tracing (Shen, H. (635) 159)

Brain temperature; Glutamate; Intracerebroventricular infusion; Oxidized glutathione; Paradoxical sleep; Sleep-promoting substance; Slow-wave sleep (Honda, K. (636) 253)

Locomotor activity; Arousal; Aging (Penev, P.D. (637) 255)

Suprachiasmatic nucleus; Serotonin; 8-Hydroxy-DPAT; Buspirone; NAN-190; Tryptophan; Fos; Light; Hamster (Glass, J.D. (638) 235)

Suprachiasmatic nucleus; Vasopressin; Aarginine-vasopressin; Immunoreactivity; Vole (Gerkema, M.P. (639) 93)

Serotonin; Suprachiasmatic nucleus; High performance liquid chromatography; Entrainment; Rat (Cagampang, F.R.A. (639) 175)

Glutamate; Electrical stimulation; MK-801; Retinohypothalamic tract; Suprachiasmatic nucleus (De Vries, M.J. (642) 206)

Suprachiasmatic nucleus; Substance P; Glutamate; Neuronal firing (Shirakawa, T. (642) 213)

Suprachiasmatic nucleus; Glia; Octanol; Halothane; Fluorocitrate; Brain slice (Prosser, R.A. (643) 296)

Suprachiasmatic nucleus; Serotonin; K^+ channel; Apamin; Charybdotoxin; Protein kinase A; cAMP (Prosser, R.A. (644) 67)

Vasoactive intestinal polypeptide; Somatostatin; Suprachiasmatic nucleus; Cysteamine; Enzyme immunoassay; Rat (Fukuhara, C. (645) 343)

Suprachiasmatic nucleus; NMDA; Retinohypothalamic tract; Nitric oxide (Watanabe, A. (646) 161)

H-reflex; Soleus; Electromyogram; Rat (Chen, X.Y. (648) 167)

Suprachiasmatic nucleus; Hypothalamus, human; Vasopressin neuron; Biological clock; Aging (Hofman, M.A. (651) 134)

Activity; Hamster; Intergeniculate leaflet; Nonphotic; Phase shift; Triazolam (Janik, D. (651) 174)

Melatonin; Pineal gland; Cell culture (Murakami, N. (651) 209)

cAMP; Suprachiasmatic nucleus; Enzyme immunoassay; Rat (Yamazaki, S. (651) 329)

Superior cervical ganglionectomy; Pineal; ACTH; Corticosterone; 6-Sulphatoxymelatonin; Rat (Siaud, P. (652) 273)

Retinohypothalamic tract; Photoperiodic perception; Immediate early gene expression; Visual system (Vuillez, P. (654) 81)

Suprachiasmatic nucleus; Serotonin; 8-Hydroxy-DPAT; Glutamate; Microdialysis; Hamster (Srkalovic, G. (656) 302)

Entrainment; Suprachiasmatic nucleus; Intergeniculate leaflet; Retinal ganglion cell (Moore, R.Y. (659) 249)

Melatonin; Photoentrainment (Wolfe, M.S. (662) 273)

Ultrastructure; Astrocyte; Glial fibrillary acidic protein; Suprachiasmatic nucleus; Rat (Elliott, A.S. (662) 278)

Adenosine triphosphate; Suprachiasmatic nucleus; Anterior hypothalamic area; Caudate putamen; Rat; Metabolic activity (Yamazaki, S. (664) 237)

α-Neoendorphin; Microdialysis; Pituitary gland; Naloxone (Konya, H. (665) 130)

Suprachiasmatic nucleus; Supraoptic nucleus; DNA repair; Fos; Apurinic/apymidinic endonuclease (Rivkees, S.A. (666) 137)

Circadian rhythmicity
Acetylcholine; Superior cervical ganglion; Sympathetic preganglionic regulation; Choline acetyltransferase; Transmitter release (González Burgos, G.R. (636) 181)

Suprachiasmatic nucleus; NMDA; MK-801; Glutamate; Excitatory amino acid; Enucleation; Rat; Hamster (Hartgraves, M.D. (640) 113)

Circling
Microinjection; MK-801; Striatum; Rat; 6-Hydrohydopamine; Substantia nigra pars reticulata (St-Pierre, J.A. (660) 255)

Circuit
Chemical synapse; Electrical synapse; Conditional bursting; Cell culture; Synapse formation (Magoski, N.S. (645) 201)

Circulation
Sleep; Brain blood flow; Radioactive microsphere; Rat (Zoccoli, G. (641) 46)

Circumventricular organ
Baroreceptor reflex; Blood pressure; Hypertension (Lowes, V.L. (636) 165)

Cell adhesion; Immunoglobulin superfamily; Pain pathway; Basal ganglia; Limbic system; Cerebral cortex; Development; Monoclonal antibody (Peduzzi, J.D. (640) 296)

Area postrema; Gastric relaxation; Control of gastric motility; Vagus nerve; DL-Homocysteic acid (Bongianni, F. (646) 307)

***cis*-Flupentixol**
Clozapine; Dopamine; Drug discrimination; Haloperidol; Nicotine (Brioni, J.D. (643) 1)

Cisplatin
Taxol; Vincristine; Dorsal root ganglion; Nerve growth factor; Rat (Konings, P.N.M. (640) 195)

Outer hair cell; Guinea pig; Ototoxicity; Calcium current; Whole-cell voltage clamp (Yamamoto, T. (648) 296)

α-Sialyl cholesterol; Schwann cell; Laminin; Vincristine; Taxol; K-562 cell; Rat (Konings, P.N.M. (654) 118)

Cisternal microdialysis
Cerebrospinal fluid; Loop diuretics; Furosemide; Ethacrynic acid; Acetazolamide (Johanson, C.E. (641) 121)

Citrulline
Bioassay; Excitatory amino acid; NMDA; Nitric oxide synthase; Spinal cord (Li, P. (637) 287)

c-*jun*
Brain; Hippocampus; Transcription factor; Regulatory protein; c-*fos*; Seizure; Metrazole; CREB; Sensory cortex; Limbic cortex; Cerebellum; Gel-shift; EMSA; Supershift (Łukasiuk, K. (643) 227)

Cl-218,872
$GABA_A$ receptor; Benzodiazepine; Cl^- current; Hippocampal neuron; Pentobarbital; Ethanol (Aguayo, L.G. (647) 97)

Classically conditioned analgesia
Amygdala; Cat-induced analgesia; Shock-induced analgesia (Fox, R.J. (648) 215)

Classical transmitter
Immunocytochemistry; Autoradiography; Transmitter uptake; Neuropeptide; Colocalization (Watt, C.B. (634) 317)

Cl^--ATPase
Cl^- pump; Cl^- transport; Electrogenic; Phosphatidylinositol-4-monophosphate; Reconstitution (Zeng, X.-T. (641) 167)

Cl^- current
Dorsal root ganglion neuron; Frog; $GABA_A$ receptor; Insecticide; Lindane; Subtype (Tokutomi, N. (643) 66)

$GABA_A$ receptor; Benzodiazepine; Hippocampal neuron; Pentobarbital; Ethanol; Cl-218,872 (Aguayo, L.G. (647) 97)

Cl^- pump
Cl^- transport; Electrogenic; Phosphatidylinositol-4-monophosphate; Cl^--ATPase; Reconstitution (Zeng, X.-T. (641) 167)

Cl^- transport
Cl^- pump; Electrogenic; Phosphatidylinositol-4-monophosphate; Cl^--ATPase; Reconstitution (Zeng, X.-T. (641) 167)

$^{36}Cl^-$ uptake
$GABA_A$ receptor; TBPS binding; Roman high- and low-avoidance rats; Dopamine D_1 receptor; Stress; Psychogenetic selection (Giorgi, O. (638) 13)

Climbing fiber
Neuropeptide Y; Inferior olive; Flocculus; Rat; Immunohistochemistry; In situ hybridization (Ueyama, T. (634) 353)

Synapse elimination; Maps formation; Cerebellum; Purkinje cell; X-irradiation; Vibrissa (Fuhrman, Y. (638) 277)

Clinical death
Global cerebral ischemia; Cardiac arrest; Blood–brain barrier; Horseradish peroxidase; Endothelial cell (Pluta, R. (633) 41)

β-Amyloid protein precursor; β-Amyloid peptide; Global cerebral ischemia; Cardiac arrest; Stroke; Rat; Alzheimer's disease (Pluta, R. (649) 323)

Clonidine
Adrenergic cell; Serotonergic cell; Catecholaminergic autoreceptor; Central autonomic pathway; Vasomotor regulation; Blood pressure; Bulbospinal pre-sympathetic neuron; CNS acting sympatholytic drug (Guyenet, P.G. (638) 285)

Hypothalamus-pituitary-adrenocortical axis; Naloxone-induced withdrawal (Gonzalvez, M.L. (647) 199)

Norepinephrine; Idazoxan; Amygdala kindling; Kitten (Shouse, M.N. (648) 352)

Norepinephrine; Dopamine; Amphetamine; Cocaine; Prefrontal cortex; Hippocampus; Microdialysis; Caudate (Florin, S.M. (654) 53)

Nucleus tractus solitarii; NPY(1–36); Neuropeptide Y_1 receptor agonist; Neuropeptide Y_2 receptor agonist; Adrenaline; Receptor autoradiography; Cardiovascular control (Yang, S.-N. (654) 137)

α_2-Receptor; Excitatory amino acid; Voltammetry, in vivo; Locus ceruleus; Withdrawal syndrome (Duggan, S. (665) 253)

Cloning
Development; Cat; Vision; Activity; mRNA; Gene expression; Sequence identity (Prasad, S.S. (639) 73)

Clorgyline
p-Chloroamphetamine; Neurotoxicity; Serotonin uptake site; Monoamine oxidase; Pargyline; Deprenyl (Benmansour, S. (650) 305)

Clozapine
Dopamine; Drug discrimination; *cis*-Flupentixol; Haloperidol; Nicotine (Brioni, J.D. (643) 1)

Cluster analysis
Neurofilament protein; Cytoskeleton; Axon; Poisson distribution; Statistical model; Probability; Space-time clustering (Hsieh, S.-T. (642) 316)

Clusterin
Pick body; Ballooned neuron; Complement membrane attack complex; Vitronectin; Protectin (Yasuhara, O. (652) 346)

CNQX
Goldfish; Excitatory amino acid; Kainate; Glutamate; AMPA; Autoradiography (Barnes, J.M. (637) 323)

Excitatory amino acid; NMDA; AMPA; AP5; CPPene; 7-Chlorokynurenate; D-Serine; NBQX; Neurotransmission (Qume, J.D.M. (649) 43)

Retinal cell; γ-Aminobutyric acid release; Glutamate receptor; NNC-711; MK-801 (Ferreira, I.L. (664) 252)

CNQX binding
Human midbrain; Basal ganglia; NMDA receptor; Non-NMDA receptor; Autoradiography; MK-801 binding; Glycine binding; Kainate binding (Ball, E.F. (658) 209)

CNS
Neuropeptide; FMRFamide; Sensory afferent; Chemoreception; Immunocytochemistry; Crustacean; Decapod (Schmidt, M. (653) 315)

CNS acting sympatholytic drug
Adrenergic cell; Serotonergic cell; Catecholaminergic autoreceptor; Central autonomic pathway; Vasomotor regulation; Blood pressure; Bulbospinal pre-sympathetic neuron; Clonidine (Guyenet, P.G. (638) 285)

CNS depression
CI-977; κ Opioid receptor; Autoradiography; 2-Deoxyglucose (Mackay, K.B. (642) 160)

CNS neuron
Etoposide; Programmed cell death; Neuronal cell death; Cycloheximide; Actinomycin D (Nakajima, M. (641) 350)

Co^{2+}
Cat adrenal chromaffin cell; Cytosolic free calcium; Fura-2 microfluorometry; Cytosolic free sodium; SBFI microfluorometry; Cd^{2+} (Yamagami, K. (646) 295)

CO_2 acidosis
Brain ischemia; Glucose-oxygen deprivation; Acidosis; Lactic acidosis; Hippocampus; Population spike (Morimoto, Y. (654) 273)

Cobalt chloride
Caudal hypothalamus; Excitatory amino acid; Kynurenic acid; Rat; Respiration (Horn, E.M. (664) 25)

Cocaine
Dopamine; Prenatal; Striatum; Microdialysis (Keller Jr., R.W. (634) 266)

Newborn; Brain cell membrane injury; Na^+,K^+-ATPase (Lien, R. (637) 249)

Dopamine D_1 receptor; c-*fos* gene expression; Subsensitivity; A-77636 (Asin, K.E. (637) 342)

Prenatal; Mazindol; Dopamine uptake site; Striatum; Postnatal; Rat (Stadlin, A. (637) 345)

Sensitization; Dopamine; Dopamine D_1 receptor; Dopamine D_2 receptor; Nimodipine; EEDQ (Burger, L.Y. (639) 228)

Benzoylecgonine; Neuroblastoma; Glioma; Neuron; Glia; Cytotoxicity; Toxicity; Morphology (Lin, Y. (643) 108)

Dorsal horn neuron; Pain; Tail flick test; Spinal transection; Dopamine (Kiritsy-Roy, J.A. (644) 109)

Norepinephrine; Microdialysis; Frontal cortex; Hippocampus; Locus coeruleus (Thomas, D.N. (645) 135)

Sensitization; Genetic difference; Sex difference; Castration; Ovariectomy; Female; Rat (Haney, M. (645) 179)

Amygdala; Dopamine; 6-Hydroxydopamine; Progressive ratio; Reinforcement; Self-administration (McGregor, A. (646) 273)

Microdialysis; Pharmacokinetics; Sensitization; Benzoylecgonine; Metabolism (Pettit, H.O. (651) 261)

Microdialysis; Dopamine; DOPAC; Homovanillic acid; Nucleus accumbens; Striatum; Medial prefrontal cortex (Glick, S.D. (653) 148)

Nicotine; Mesolimbic dopamine; Pedunculopontine tegmental nucleus; Cholinergic; Reinforcement; Dihydro-β-erythroidine (Corrigall, W.A. (653) 278)

Norepinephrine; Dopamine; Amphetamine; Clonidine; Prefrontal cortex; Hippocampus; Microdialysis; Caudate (Florin, S.M. (654) 53)

Ibogaine; Harmaline; Tabernanthine; Coronaridine; Ibogamine; Desethylcoronaridine; Morphine; Drug self-administration (Glick, S.D. (657) 14)

Amphetamine; Dopamine; Glutamate; Stereotypy; Striatum (Karler, R. (658) 8)

Corticosterone; Metyrapone; Psychomotor effect; Self-administration; Drug abuse (Piazza, P.V. (658) 259)

Sensitization; Amphetamine; MK-801; Nucleus accumbens; Microdialysis; Dopamine (Wolf, M.E. (666) 223)

Cocaine dopamine receptors desensitization mRNA
(Laurier, L.G. (634) 31)

Cocaine kindling
Prefrontal cortex; Hippocampus; Sensitization (Schenk, S. (659) 17)

Cochlea
Auditory selective attention; Otoacoustic emission; Efferent (Giard, M.-H. (633) 353)

Gentamicin; Outer hair cell; Patch-clamp; PBFI; Guinea pig (Ernst, A. (636) 153)

Sympathetic nerve; Superior cervical ganglion; Major petrosal nerve; Anterograde tracing; Wheat germ agglutinin–horseradish peroxidase; Rat (Shibamori, Y. (646) 223)

Guinea pig; Outer hair cell; Patch-clamp; Potassium channel; Resting potential (Nakagawa, T. (661) 293)

Nitric oxide; NADPH-diaphorase; Outer hair cell; NMMA (Fessenden, J.D. (668) 9)

Cochlear destruction
Temporary deafness; Protection; Compound action potential audiogram; Olivocochlear efferent; Lignocaine (Robertson, D. (646) 37)

Cochlear nucleus
GABA; GABA receptor; Auditory pathway; Neurotransmitter (Juiz, J.M. (639) 193)

Cockroach
Miniature junctional current; Decay time constant; Denervation; Coxal depressor muscle (Washio, H. (642) 77)

Co-culture
Synapse formation; Ca^{2+}-oscillation; Neuron; Astrocyte (Nakanishi, K. (659) 169)

Codeine
Antitussive; Diaphragm; Abdominal (Bolser, D.C. (662) 25)

Coexistence
Immunofluorescence; AMCA; Texas red; Fluorescein isothiocyanate; GABA; Glycine (Watt, C.B. (634) 310)

Proteoglycan; Heparan sulfate; Basic fibroblast growth factor; Tyrosine hydroxylase; Immunocytochemistry; Brain (Fuxe, K. (636) 131)

Cognition
Cerebellum volume; Attention; Novelty; Molecular layer (Anderson, B. (641) 160)

Cognition enhancing
Acetylcholine; Nicotine; Aging; Alzheimer's disease; Nicotinic receptor; Nictitating membrane; Learning (Woodruff-Pak, D.S. (645) 309)

Cognitive
Intracortical; Multichannel recording; AI; Primary auditory cortex; Evoked potential; Auditory (Javitt, D.C. (667) 192)

Cograft
Neural transplantation; MPTP; Adrenal medulla; Peripheral nerve; Nerve growth factor (NGF); Parkinson's disease (Date, I. (637) 50)

Coherence
Hippocampus; Rhythmical slow activity; Theta; Electroencephalogram; Neural oscillation; Phase; Commissural connection (Kocsis, B. (660) 341)

Colchicine
Ibotenic acid; Nucleus basalis; Cholinergic hypofunction; Glutamic acid decarboxylase; Biogenic amine; Passive avoidance (Shaughnessy, L.W. (637) 15)

Dynorphin; Hippocampal formation; Blood pressure; Spontaneously hypertensive rat; Wistar–Kyoto rat; Hypertension (Privette, T.H. (656) 295)

Cold
Fos; Paraventricular nucleus of the hypothalamus; Caudal raphe nucleus; Dorsal vagal complex; Gastric lesion; Fecal output (Bonaz, B. (652) 56)

Cold pressor
Frontal cortex; Chronic pain; Limbic system; Analgesia (Backonja, M. (639) 337)

Collagen
Biodegradable graft; Laminin; Fibronectin; Peripheral nerve regeneration (Tong, X.-j. (663) 155)

Colocalization
Immunocytochemistry; Autoradiography; Transmitter uptake; Neuropeptide; Classical transmitter (Watt, C.B. (634) 317)

In situ hybridization; Immunocytochemistry; Substantia nigra; Basal ganglia; Calretinin; Calbindin; Tyrosine hydroxylase (Heppelmann, B. (635) 293)

Co-localization
Glycine; Immunohistochemistry; Peptide (Fleming, A.A. (638) 347)

Colocalization
GABA; Calcium binding protein; Neuropeptide; Nitric oxide synthase (Kubota, Y. (649) 159)

NADPH; Nitric oxide; Sympathetic; Superior cervical; Interaction (Vanhatalo, S. (652) 107)

Glutamic acid decarboxylase; Parvalbumin; Calbindin; Choline acetyltransferase; Acetylcholinesterase; Rat brain (Van der Zee, E.A. (652) 263)

Colon
Stress; CRF; CCK-8s; Central amygdala; Rat (Gué, M. (658) 232)

Solitary nucleus; Reproduction; Uterus; Cervix; Vagina; Viscera (Hubscher, C.H. (664) 1)

Colonic transit
Corticotropin releasing factor; Central nervous system control of gastrointestinal transit; Locus coeruleus; Gastric emptying; Stress (Mönnikes, H. (644) 101)

Colorectal distention
NMDA; Quisqualic acid; Hyperalgesia; Rat (Kolhekar, R. (651) 215)

Pain; Nociception; Viscera (Follett, K.A. (656) 27)

Columnar organization
Anxiety; Analgesia; Proglumide; CR1409; Cholecystokinin; Pain; Orienting response; Alerting; Hyperalgesia (Liu, H. (642) 83)

Coma
Amyloid precursor protein; Human brain; Brain autolysis; Anti-β/A4 antibody; Western blotting; Brain fraction (Webster, M.-T. (644) 347)

Command system
Locomotion; Excitatory amino acid; Lamprey; Central pattern generator (Hagevik, A. (636) 147)

Commissural CA3
NMDA antagonist; CPP; Long-term potentiation; In vivo; Rat (Hernandez, R.V. (656) 215)

Commissural connection
Hippocampus; Rhythmical slow activity; Theta; Electroencephalogram; Neural oscillation; Coherence; Phase (Kocsis, B. (660) 341)

Commissural nucleus
Area postrema; Cardiovascular regulation; Sodium receptor; Sympathetic nervous system; Vagus (Hochstenbach, S.L. (644) 233)

Compartmentation
Astrocyte; Cerebral ischemia; Glia; Neuron; ^{31}P NMR spectroscopy; pH (Sunagawa, S. (641) 328)

Competitive enzyme-linked immunoflow assay
Alzheimer's disease; Biomarker; Ubiquitin; Cerebrospinal fluid; Enzyme-linked immunosorbent assay; ELISA; CELIFA (Kudo, T. (639) 1)

Complement
Parkinson's disease; Dopaminergic neuron; Autoimmunity; Serum (Defazio, G. (633) 206)

Microglia; Complement receptor; ICAM-1; LFA-1; Blood–brain barrier (Akiyama, H. (635) 257)

Alzheimer's disease; Membrane attack complex; Ultrastructure; Tangle (Itagaki, S. (645) 78)

Complement membrane attack complex
Pick body; Ballooned neuron; Clusterin; Vitronectin; Protectin (Yasuhara, O. (652) 346)

Complement receptor
Microglia; Complement; ICAM-1; LFA-1; Blood–brain barrier (Akiyama, H. (635) 257)

Compound action potential
Aminoglycoside antibiotic; Gentamicin; Olivocochlear efferent; Contralateral efferent suppression (Smith, D.W. (652) 243)

Compound action potential audiogram
Temporary deafness; Protection; Olivocochlear efferent; Lignocaine; Cochlear destruction (Robertson, D. (646) 37)

Compression
NADPH-diaphorase; Facial motor neuron; Functional recovery; Rat (Ruan, R.-S. (652) 350)

Computer analysis
Sleep; Neurophysiology; EEG; Beta; Sigma; Delta; Fast Fourier transform (Uchida, S. (659) 243)

Concanavalin A
Tectum; *Rana pipiens*; Habituation; Glutamate; Nucleus isthmus (Scherer, W.J. (667) 209)

Condensation product
Tryptophan hydroxylase; Dihydroxy-tetrahydroisoquinoline; Tetrahydro-β-carboline; Catechol structure; MPTP; MPP^+ (Matsubara, K. (655) 121)

Condition
Intracerebral microdialysis; Brain; Rat; Acetaminophen; Atenolol; Pharmacokinetics; Blood–brain barrier (De Lange, E.C.M. (666) 1)

Conditional bursting
Chemical synapse; Electrical synapse; Cell culture; Synapse formation; Circuit (Magoski, N.S. (645) 201)

Conditional discrimination
Neuropeptide Y; Naloxone; Memory (Cleary, J. (653) 210)

Conditioned analgesia
Cholecystoskinin; Neuropeptide FF; Dynorphin; μ Opioid receptor; δ Opioid receptor; Spinal cord; Pain facilitation; Conditioned anti-analgesia (Wiertelak, E.P. (634) 214)

Conditioned anti-analgesia
Cholecystoskinin; Neuropeptide FF; Dynorphin; μ Opioid receptor; δ Opioid receptor; Spinal cord; Pain facilitation; Conditioned analgesia (Wiertelak, E.P. (634) 214)

Conditioned avoidance
Uridine; Haloperidol; Antipsychotic; Schizophrenia (Myers, C.S. (651) 194)

Conditioned medium
Neurotrophic factor; Hypothalamus; Suprachiasmatic nucleus; Astrocyte; Cultured neuron (Kawahara, F. (651) 101)

γ-Glutamyl transpeptidase; Extracellular matrix; Endothelial cell; C_6 rat glioma cell (Mizuguchi, H. (651) 155)

Conditioned place preference
Amphetamine; Locomotion; Mesencephalic locomotor region; Morphine; Pedunculopontine tegmental nucleus; Rat; Reinforcement (Olmstead, M.C. (638) 29)

Conditioned response
Blink reflex; Brainstem; Prepulse inhibition; Reflex modification; Sensory gating (Valls-Solé, J. (650) 313)

Conditioned taste aversion
Salivation; Taste; Chorda tympani; Licking; Grooming; Freely moving rat (Matsuo, R. (649) 136)

Conditioning
Behavioral sensitization; Electrochemistry; Dopamine neuron; Dopamine release (Kiyatkin, E.A. (642) 228)

Individual difference; Amphetamine-induced hyperlocomotion; Sensitization; Drug abuse; Amphetamine; Locomotion (Jodogne, C. (657) 236)

Cone
Retina; Horizontal cell; Dark adaptation; Rod; Electrical coupling; Light adaptation (Mangel, S.C. (659) 55)

Confocal laser microscopy
GABA; Glycine; Inhibitory neurotransmission; Benzodiazepine receptor (Bohlhalter, S. (642) 59)

Confocal laser scanning microscopy
Hypoxia-ischemia; Rat; Perinatology; Cerebral cortex; Glutamic acid decarboxylase; GABA; Epilepsy; Immunofluorescence (Romijn, H.J. (657) 245)

Confocal laser-scanning microscopy
Synapse protein; Alzheimer's disease; Lewy body disease; Hippocampal-entorhinal formation; Neuritic plaque (Wakabayashi, K. (667) 24)

Confocal microscopy
Dorsal root ganglion; Calcium; Nucleus; Fluo-3 (Utzschneider, D.A. (635) 231)

Connection
NMDA; Cerebral cortex; Rat; Synapse; Cortical slice; Visual system (Currie, S.N. (662) 103)

Connexin43
Astrocyte; Gap junction; Immunohistochemistry; Ischemia; Brain (Hossain, M.Z. (652) 311)

Conopeptide
Autoradiography; Neuronal calcium channel; ω-Conotoxin; SNX-111 (ω-MVIIA) (Gohil, K. (653) 258)

ω-Conopeptide
Calcium channel; Glutamate; GABA; Hippocampus; Microdialysis (Newcomb, R. (638) 95)

Conotoxin
Ionic current; Pacemaker neuron (Lev-Ram, V. (640) 48)

Agatoxin; Glutamate; Hypoglycemia; Hypoxia; Ischemia; *N*-Methyl-D-aspartate; Primary neuronal culture (Koretz, B. (643) 334)

ω-Conotoxin
FTX; Ca^{2+}-channel; N-channel; Spermine; P-channel; Binding; AgaIVA; MVIIC; GVIA (Lundy, P.M. (643) 204)

Autoradiography; Neuronal calcium channel; Conopeptide; SNX-111 (ω-MVIIA) (Gohil, K. (653) 258)

Calcium; Calcium channel; Edinger–Westphal nucleus; Ciliary ganglion; Calyciform terminal (Lucaj, Z. (660) 1)

ω-Conotoxin GVIA
Cortical wedge; Glutamate; Excitatory amino acid; Calcium channel; ω-Agatoxin IVA; ω-Conotoxin MVIIC (Robichaud, L.J. (643) 352)

Global cerebral ischemia; Autoradiography; Voltage-dependent calcium channel; Hippocampus; PN200-110 (isradipine) (Perry, D.C. (657) 65)

Calcium channel; Neurohypophysis; Nerve terminal; Calcium channel blocker; Funnel-web spider toxin; Tetrandrine (Wang, G. (663) 215)

ω-Conotoxin MVIIC
Cortical wedge; Glutamate; Excitatory amino acid; Calcium channel; ω-Conotoxin GVIA; ω-Agatoxin IVA (Robichaud, L.J. (643) 352)

Conscious rat
Blood pressure; Heart rate; Baroreflex; L-Glutamate; *p*-Chloromercuriphenylsalfonic acid; Phenylephrine; Rostral ventrolateral medulla (Mao, L. (654) 343)

Microinjection; Defense reaction; Blood pressure; Heart rate (Itoi, K. (668) 100)

Constant darkness
Melatonin receptor; Light-dark cycle; Pars tuberalis; Suprachiasmatic nucleus; Pinealectomy; Desensitization (Gauer, F. (641) 92)

Contextual learning
Long-term potentiation; Hippocampus; Pavlovian fear conditioning; Sex difference; (Rat) (Maren, S. (661) 25)

Contralateral effect
Stimulation-induced feeding; Ventral tegmental area; Lesion; Facilitation; Rat (Trojniar, W. (641) 333)

Contralateral efferent suppression
Aminoglycoside antibiotic; Gentamicin; Olivocochlear efferent; Compound action potential (Smith, D.W. (652) 243)

Control of breathing
Hypoglossal motoneuron; Microdialysis; Pons; REM sleep; Serotonin; Sleep apnea syndrome; Upper airway (Kubin, L. (645) 291)

Control of gastric motility
Area postrema; Gastric relaxation; Circumventricular organ; Vagus nerve; DL-Homocysteic acid (Bongianni, F. (646) 307)

Contusion
Brain edema; Cu,Zn-superoxide dismutase; Hypothermia; Northern blotting; Specific gravity (Fukuhara, T. (657) 333)

Convergent neuron
Hyperalgesia; Ischemia; Diazepam; Benzodiazepine; Reperfusion; Hyperexcitability (Cartmell, S.M. (659) 82)

Convulsant
Glia; DMCM; Benzodiazepine; Cell culture; Patch-clamp (Rosewater, K. (636) 73)

Convulsion
Kainate; Neurotoxicity; Protection; Neuronal damage; Zinc depletion (Pohle, W. (644) 297)

Kainate; Neurotoxicity; Epilepsy; Kindling; Glutamate (Baran, H. (652) 195)

Coolant compound
Temperature sensitivity; Taste; Electrophysiological recording; Trigeminal nerve (Lundy Jr., R.F. (641) 208)

Cooling
Zebra finch; Visually evoked potential; Visual wulst; Ectostriatum; Optic tectum; Ipsi- and contralateral stimulus responses; Spreading depression (Engelage, J. (652) 17)

Cooperative binding
Resiniferatoxin autoradiography; Vanilloid receptor; Capsaicin; Capsazepine (Szallasi, A. (655) 237)

Coordination of motor pools
Motor control; Electromyography; Biarticular muscle; Recruitment; Waveform (De Leon, R. (654) 241)

Coping
Stress control; Picrotoxinin; Strychnine; Seizure; Chloride channel; TBPS; Receptor binding; GABA shift; Anticonvulsant; Endogenous benzodiazepine (Drugan, R.C. (661) 127)

Copula pyramis
Barrel rotation; Flocculus; Inferior olive; Phosphoinositide; cGMP; Epilepsy model (Chew, B.H. (647) 345)

Copulation
Male sexual behavior; Medial preoptic area; Unit activity; Rat; Motivation (Shimura, T. (640) 215)

Nociception; Pain; Analgesia; Female sexual behavior; Pelvic nerve; Pudendal nerve; Hypogastric nerve; Mount; Intromission; Ejaculation (Gómora, P. (656) 52)

Core
NADPH-diaphorase; Calbindin-D28k; Huntington's disease; Calcium binding protein; Nucleus accumbens; Shell (Hussain, Z. (656) 191)

Shell; Choline acetyltransferase; Leucine^5-enkephalin; Opioid peptide; Silver-enhanced gold; Silver-intensified gold; Ventral striatum (Meredith, G.E. (667) 67)

CO_2 responsiveness
α-Chloralose; Halothane; Anesthesia; Laser–Doppler flowmetry; Cortical blood flow (Bonvento, G. (665) 213)

Cornea
Adrenal; Catecholamine; c-*fos*; Pain; Somatosympathetic reflex (Bereiter, D.A. (657) 73)

Coronaridine
Ibogaine; Harmaline; Tabernanthine; Ibogamine; Desethylcoronaridine; Morphine; Cocaine; Drug self-administration (Glick, S.D. (657) 14)

Corpus callosum
Primate; Area 17; Visual cortex; Somatosensory cortex; Development (Beck, P.D. (651) 57)

Astrocyte; Chondroitin sulfate; Electron microscopy; Immunohistochemistry; Node of Ranvier; Rat; Spinal cord (Bjartmar, C. (667) 111)

Corpus striatum
Parkinson's disease; Dopamine-releasing protein; Neurotrophic factor; Dopamine; Substantia nigra; Rotation (Phelps, S.M. (666) 117)

Correlation analysis
Positron emission tomography; Regional cerebral blood flow; Somatosensory discrimination; Neuronal network (Kawashima, R. (663) 251)

Correlation technique
Time dependent scatter diagram; Non-stationary point process; Functional connectivity (Hamada, Y. (660) 209)

Cortex
Brain; Ischemia; Infarction; Striatum; Acidosis; Metabolism; Hyperglycemia (Kofke, W.A. (633) 171)

Long-latency reflex; Magnetic stimulation; Cutaneous reflex; Human (Ohki, Y. (633) 343)

Triple immunofluorescence labeling; Dual-peroxidase staining; Glia; Extracellular matrix; *Wisteria floribunda* agglutinin; Chondroitin sulfate proteoglycan; Rat (Härtig, W. (635) 307)

Phospholipase A_2; Astrocyte; Astrocytoma; Eicosanoid; Inflammation (Stephenson, D.T. (637) 97)

Corticosteroid Type I receptor; Corticosteroid Type II receptor; Mineralocorticoid receptor; Hippocampus; Hypothalamus; Cerebellum; Cortisol (Brooke, S.M. (637) 303)

Aromatase; Hypothalamus; Cell culture; Immunocytochemistry; Sex difference; Regional-specific morphology; BALB/c mouse (Beyer, C. (638) 203)

Aging; HPLC-chemiluminescence; Phosphatidylcholine hydroperoxide; Hydroxyl radical; Hippocampus; Striatum (Zhang, J.-R. (639) 275)

c-Fos; Hypoxia; Hippocampus; Rat (Taniguchi, T. (640) 119)

Calcium; Bleb; ATP; Volume (Friedman, J.E. (641) 57)

Cerebral ischemia; Focal ischemia; Immunohistochemistry; Striatum; Superoxide dismutase; Rat (Liu, X.-H. (644) 257)

Development; Recovery of function; Frontal cortex; Prefrontal cortex; Parietal cortex; Dendrite (Kolb, B. (645) 85)

Neonatal lesion; Recovery of function; Cortical graft; Neural transplantation; Frontal lesion (Kolb, B. (647) 15)

A-77636; Amphetamine; Brain stimulation reward; Caudate-putamen; Dopamine D_1 agonist; Dopamine D_2 agonist; Dopamine receptor; Nucleus accumbens; Quinpirole; Rat; Reinforcement (Ranaldi, R. (651) 283)

192 IgG-saporin; Acetylcholine; Basal forebrain (Holley, L.A. (663) 277)

Sodium green; Hippocampus; Volume (Friedman, J.E. (663) 329)

Cortical blood flow
Basal forebrain; Substantia innominata; Cortical PO_2; Cortical PCO_2; Aging; Alzheimer's disease; Fischer 344 rat; Cerebral blood-flow regulation; Helium clearance; Physostigmine; Intrinsic cholinergic innervation (Sercombe, R. (662) 155)

α-Chloralose; Halothane; Anesthesia; Laser–Doppler flowmetry; CO_2 responsiveness (Bonvento, G. (665) 213)

Cortical graft
Cortex; Neonatal lesion; Recovery of function; Neural transplantation; Frontal lesion (Kolb, B. (647) 15)

Cortical neuron
Chondroitin sulfate; Proteoglycan; Protective action; Cell death; Excitotoxicity; Glutamate; Cell culture (Okamoto, M. (637) 57)

Glutamate; Intracellular calcium concentration; Fura-2; pH (Ou-Yang, Y.B. (646) 65)

Apoptosis; Cell death; DNA fragmentation; Ultrastructure (Takei, N. (652) 65)

Cortical neuron culture
Metallothionein; Alzheimer's disease; Growth inhibitory factor; Neurotrophic factor; MT-III, recombinant; Cadmium exchange assay; Human brain extract (Erickson, J.C. (649) 297)

Cortical PCO_2
Basal forebrain; Substantia innominata; Cortical blood flow; Cortical PO_2; Aging; Alzheimer's disease; Fischer 344 rat; Cerebral blood-flow regulation; Helium clearance; Physostigmine; Intrinsic cholinergic innervation (Sercombe, R. (662) 155)

Cortical PO_2
Basal forebrain; Substantia innominata; Cortical blood flow; Cortical PCO_2; Aging; Alzheimer's disease; Fischer 344 rat; Cerebral blood-flow regulation; Helium clearance; Physostigmine; Intrinsic cholinergic innervation (Sercombe, R. (662) 155)

Cortical reorganization
Single unit; Somatosensory cortex; Deafferentation; Nerve transection; Electrophysiology; Chronic recording (Salimi, I. (656) 263)

Cortical slice
NMDA; Cerebral cortex; Rat; Connection; Synapse; Visual system (Currie, S.N. (662) 103)

Cortical spreading depression
Cerebral blood flow; NMDA antagonist (Willette, R.N. (648) 347)

Cortical wedge
Glutamate; Excitatory amino acid; Calcium channel; ω-Conotoxin GVIA; ω-Agatoxin IVA; ω-Conotoxin MVIIC (Robichaud, L.J. (643) 352)

Corticocortical
Serotonin; Supragenual; Prefrontal cortex; Cingulate; Excitatory amino acid; Glutamatergic; Spiperone (Read, H.L. (643) 17)

Corticocortical connection
Amyotrophic lateral sclerosis; Dementia; Guam; Neurofibrillary tangle; Parkinsonism (Hof, P.R. (650) 107)

Cortico-nigral projection
Rat; Anterograde tracing; Biotinylated dextran amine; Prefrontal cortex; Substantia nigra; Light microscopy (Naito, A. (637) 317)

Cortico-pallidal projection
Anterograde tracing; Biotinylated dextran amine; Frontal cortex; Globus pallidus; Entopeduncular nucleus; (Rat) (Naito, A. (653) 251)

Corticosteroid Type I receptor
Corticosteroid Type II receptor; Mineralocorticoid receptor; Hippocampus; Cortex; Hypothalamus; Cerebellum; Cortisol (Brooke, S.M. (637) 303)

Corticosteroid Type II receptor
Corticosteroid Type I receptor; Mineralocorticoid receptor; Hippocampus; Cortex; Hypothalamus; Cerebellum; Cortisol (Brooke, S.M. (637) 303)

Corticosterone
NMDA; Kainate; Excitatory amino acid; Stress; Glucose production; Glucose utilization; Catecholamine; Epinephrine; Glucagon; Insulin; Rat (Molina, P.E. (634) 41)

N-Methyl-D-aspartate; Kainate; Excitatory amino acid; Glucose production; Glucose utilization; Catecholamine; Glucagon; Insulin; Rat (Yousef, K.A. (634) 131)

Glucocorticoid receptor; Mineralocorticoid receptor; Methamphetamine; Adrenalectomy; Serotonin; Dopamine (Lowy, M.T. (638) 175)

Adaptation; Chronic stress; Catecholamine; DOPAC; Adrenocorticotropic hormone; Glucose (Lachuer, J. (638) 196)

Corticotropin-releasing hormone; Amygdala; Paraventricular nucleus; mRNA (Makino, S. (640) 105)

Addiction; Sensitization; Social isolation; Morphine; Locomotor activity (Deroche, V. (640) 136)

Interleukin-1; Interleukin-2; Interleukin-6; Norepinephrine; Serotonin; Dopamine (Zalcman, S. (643) 40)

ACTH; Norepinephrine; Tryptophan; Newcastle disease virus; Serotonin (Dunn, A.J. (645) 103)

GABA receptor; Neuroactive steroid; Neurosteroid; Amphibian (Orchinik, M. (646) 258)

Learning; Memory; RU 28318; RU 38486; Glucocorticoid receptor; Mineralocorticoid receptor; Chick (Sandi, C. (647) 106)

Mineralocorticoid receptor; Glucocorticoid receptor; Calcium current; Hippocampus; CA1 neuron; In situ patch clamp; Rat (Karst, H. (649) 234)

Interleukin-1 receptor; Adrenocorticotropic hormone; Lipopolysaccharide; Hypothalamic-pituitary-adrenal axis; Mouse (Takao, T. (649) 265)

Circadian rhythm; Superior cervical ganglionectomy; Pineal; ACTH; 6-Sulphatoxymelatonin; Rat (Siaud, P. (652) 273)

2-Deoxyglucose method; Cerebral glucose utilization; Adrenalectomy; Limbic system (Doyle, P. (655) 115)

Adrenalectomy; Spatial memory; Radial arm maze; Dentate gyrus; Adrenal steroid (Vaher, P.R. (656) 71)

Corticotropin-releasing hormone; Bed nucleus of the stria terminalis; mRNA; Amygdala; Paraventricular nucleus (Makino, S. (657) 141)

MK-801; Locomotor activity; Glucocorticoid receptor; Rat; Sensitization (Wędzony, K. (657) 351)

Amygdaloid lesion; Neural stimuli; Median eminence; CRF-41; ACTH (Feldman, S. (658) 21)

Cocaine; Metyrapone; Psychomotor effect; Self-administration; Drug abuse (Piazza, P.V. (658) 259)

Nitric oxide; Prolactin; Luteinizing hormone; Steroid; Proestrus (Bonavera, J.J. (660) 175)

Septohippocampal cholinergic system; AF64A; Cholinergic hypofunction; Amine content (Amoroso, D. (661) 9)

Adrenalectomy; Opioid analgesia; Non-opioid analgesia; Adrenomedullary catecholamine; Adrenomedullary enkephalin; Permissive effect; Chlorisondamine; Naltrexone (Sutton, L.C. (663) 19)

Neuropeptide Y; Paraventricular nucleus; Arcuate nucleus; Hypothalamus; Neuropeptide Y receptor (Akabayashi, A. (665) 201)

Central catecholamine; Antibody response (Shanks, N. (666) 77)

Hippocampus; Dentate gyrus; AMPA receptor; NMDA receptor (Shors, T.J. (666) 232)

Corticotrophin-releasing factor; Vasopressin; Proenkephalin A; Stress; Rat strain (Harbuz, M.S. (667) 6)

Corticosterone receptor
Primary culture; Hippocampus; Glucocorticoid; Mineralocorticoid (O'Donnell, D. (636) 49)

Corticostriatal afferent
Graft; Striatum; Transplantation; Postsynaptic response (Labandeira-Garcia, J.L. (652) 87)

Corticotectal projection
Dorsal lateral geniculate nucleus; Superior colliculus; Thalamic reticular nucleus; Posterior thalamic complex; Lateral posterior nucleus; Intralaminar thalamic nuclei (Deschênes, M. (664) 215)

Corticotrophin-releasing factor
Vasopressin; Proenkephalin A; Corticosterone; Stress; Rat strain (Harbuz, M.S. (667) 6)

Corticotropin-like intermediate lobe peptide
Vasoactive intestinal polypeptide; Delta sleep inducing peptide; Nucleus raphe dorsalis; Serotonin; Slow wave sleep; Paradoxical sleep; Hypnogenic factor; Rat (El Kafi, B. (637) 211)

Corticotropin-relasing factor receptor
Interleukin-1 receptor; Stress; ACTH; HPA axis (Takao, T. (660) 170)

Corticotropin releasing factor
Central nervous system control of gastrointestinal transit; Locus coeruleus; Gastric emptying; Colonic transit; Stress (Mönnikes, H. (644) 101)

Corticotropin-releasing factor
Peptide; Sympathetic nervous system; Sympathetic ganglion; Sweating; Neurotransmitter; Chemical coding (Shafton, A.D. (652) 129)

In vivo microdialysis; Immobilization stress; Noradrenaline release; Medial prefrontal cortex (Shimizu, N. (654) 145)

Radioimmunoassay; Neuroblastoma; HPLC; Forskolin; BE (2)-M17 (Parkes, J.W.K.D.G. (654) 159)

Adrenocorticotropin hormone; Interleukin-1β; Dopamine; NMDA receptor; Behavioral sensitization (Torres, G. (656) 33)

β-Adrenoceptor; Cytokine; Dexamethasone; Forskolin; Isoproterenol; Glucocorticoid; Somatostatin (Takao, T. (656) 177)

Focal ischemia; NMDA receptor; Glucocorticoid; Neurotoxicity (Strijbos, P.J.L.M. (656) 405)

Harmaline; Inferior olive; In situ hybridization histochemistry (Cummings, S. (660) 199)

Corticotropin-releasing hormone
Excitatory amino acid; Vasopressin; Hypothalamus (Patchev, V.K. (633) 312)

Corticosterone; Amygdala; Paraventricular nucleus; mRNA (Makino, S. (640) 105)

Interleukin-2; Arginine vasopressin; Hypothalamus (Hillhouse, E.W. (650) 323)

Corticosterone; Bed nucleus of the stria terminalis; mRNA; Amygdala; Paraventricular nucleus (Makino, S. (657) 141)

Food deprivation; Water deprivation; Hypothalamic–pituitary–adrenal axis; Paraventricular nucleus; Vasopressin; Receptor (Kiss, A. (663) 84)

Corticotropin releasing hormone
Stress; mRNA; Amygdala; Hypothalamus (Kalin, N.H. (656) 182)

Cortisol
Corticosteroid Type I receptor; Corticosteroid Type II receptor; Mineralocorticoid receptor; Hippocampus; Cortex; Hypothalamus; Cerebellum (Brooke, S.M. (637) 303)

(−)-Cotinine
(−)-Nicotine; Intracerebellar; Motor incoordination; Adenosine; Nicotinic cholinergic receptor; Behavioral interaction (Dar, M.S. (644) 117)

Cotransmitter
Neuromodulation; Peptide; Second messenger; Invertebrate; cAMP; Feeding; Buccal; cAMP-dependent protein kinase (Hooper, S.L. (657) 337)

Coturnix japonica
Reproduction; Sexual behavior; Preoptic area; Japanese quail; Aromatase synthesis (Foidart, A. (657) 105)

Vasotocin; Preoptic region; Lateral septum; Avian brain; Immunocytochemistry; Quantitative analysis (Viglietti-Panzica, C. (657) 171)

Coupling
Alzheimer's disease; Adenylyl cyclase; Hippocampus; Cerebellum; Adenosine A_1-receptor; G protein; Signal transduction (Schnecko, A. (644) 291)

Coxal depressor muscle
Miniature junctional current; Decay time constant; Denervation; Cockroach (Washio, H. (642) 77)

CP96,344
Substance P; CP96,345; Spinal cord; Nociception; Joint pain; NK-1 receptor; Antibody microprobe (Neugebauer, V. (666) 207)

CP96,345
Substance P; CP96,344; Spinal cord; Nociception; Joint pain; NK-1 receptor; Antibody microprobe (Neugebauer, V. (666) 207)

CP96345
Spinal cord; Substance P; Cholecystokinin; Serotonin; Opiate; Excitatory amino acid; Hyperalgesia; L 365260; Methysergide; Norbinaltorphimine; Naltrexone (Watkins, L.R. (664) 17)

***p*-CPA**
MK-801; Reserpine; L-DOPA; Catecholamine; Serotonin; Apomorphine; Bladder reflex (Yoshiyama, M. (639) 300)

CPP
NMDA; Non-NMDA; Formalin; Pain; PCP; DNQX; MK-801 (Goettl, V.M. (642) 334)

NMDA antagonist; Commissural CA3; Long-term potentiation; In vivo; Rat (Hernandez, R.V. (656) 215)

CPPene
Excitatory amino acid; NMDA; AMPA; AP5; 7-Chlorokynurenate; D-Serine; NBQX; CNQX; Neurotransmission (Qume, J.D.M. (649) 43)

CR1409
Anxiety; Analgesia; Proglumide; Cholecystokinin; Pain; Orienting response; Alerting; Hyperalgesia; Columnar organization (Liu, H. (642) 83)

C_6 rat glioma cell
γ-Glutamyl transpeptidase; Extracellular matrix; Conditioned medium; Endothelial cell (Mizuguchi, H. (651) 155)

Crayfish
NADPH-diaphorase histochemistry; HPLC; Nitric oxide synthase; Nitric oxide; Olfaction (Johansson, K.U.I. (649) 36)

Presynaptic inhibition; Antidromic spike; Primary afferent depolarization; Fictive locomotion (Cattaert, D. (666) 109)

Sensory afferent; Electrical synapse; Dye-coupling; Antidromic spike (Marchand, A.R. (667) 98)

CREB
Brain; Hippocampus; Transcription factor; Regulatory protein; *c-fos*; *c-jun*; Seizure; Metrazole; Sensory cortex; Limbic cortex; Cerebellum; Gel-shift; EMSA; Supershift (Łukasiuk, K. (643) 227)

Transcription factor; Somatostatin; Neocortex; Development; In situ hybridization; Immunocytochemistry (Imaki, J. (651) 269)

CRF
Stress; CCK-8s; Central amygdala; Colon; Rat (Gué, M. (658) 232)

CRF-41
Amygdaloid lesion; Neural stimuli; Median eminence; ACTH; Corticosterone (Feldman, S. (658) 21)

CRF antagonist
c-fos; Locus coeruleus; Paraventricular nucleus of the hypothalamus; Stress; Fecal output (Bonaz, B. (641) 21)

CRH41
HPA axis; Pulsatility; Adrenalectomy (Ixart, G. (658) 185)

Cross-adaptation
Capsaicin; Piperine; Glossopharyngeal nerve; Electrophysiology; Desensitization (Yoshii, K. (637) 68)

Crossed-phrenic phenomenon
Respiratory neuron; Ventral respiratory group; Phrenic motoneuron; Respiratory control; Neurobiotin (Lipski, J. (640) 171)

Crush
Rat; Ventral root; Pia mater; C-fiber; Sciatic nerve; Electron microscopy; Immunohistochemistry (Karlsson, M. (667) 39)

Crustacean
Neuropeptide; FMRFamide; CNS; Sensory afferent; Chemoreception; Immunocytochemistry; Decapod (Schmidt, M. (653) 315)

Cryopreservation
Neural transplantation; Parkinson's disease; Dopamine; Diencephalon; Mesencephalon; Human embryo (Frodl, E.M. (647) 286)

M-CSF
Interleukin-1β; Interleukin-6; Tumor necrosis factor-α; GM-CSF; Astrocyte; Microglia (Mizuno, T. (656) 141)

5-CT
Serotonin; Suprachiasmatic nucleus; Entrainment; Circadian; Light; DPAT; Metergoline; NAN-190; SDZ 216-525; Propranolol; 5-HT_{1A} receptor (Ying, S.-W. (651) 37)

C-type natriuretic peptide
Cerebral microvessel; cGMP; Natriuretic peptide (Kobayashi, H. (648) 324)

Culture
5-α-Reductase; Progesterone; Neuronal cell; Glial cell; Rat (Melcangi, R.C. (639) 202)

Statoacoustic ganglion; Calretinin; Substance P; Mouse (Rabejac, D. (652) 249)

Cultured hippocampal neuron
Tumor necrosis factor-α; Tumor necrosis factor receptor; Miniature synaptic current; Spontaneous synaptic activity (Grassi, F. (659) 226)

Basic fibroblast growth factor; Neurite branching; Neurite elongation; Tyrosine kinase; Protein kinase C (Aoyagi, A. (661) 117)

Cultured hypothalamic neuron
Extracellular ATP; Cytosolic Ca^{2+} (Chen, Z.P. (641) 249)

Cultured neuron
Neurotrophic factor; Hypothalamus; Suprachiasmatic nucleus; Astrocyte; Conditioned medium (Kawahara, F. (651) 101)

ATP; Glutamate; Neurotoxicity; Spinal cord (Tsuji, K. (662) 289)

Culture system
Neuronal cell; Astrocyte; Humoral factor; Glutamate; Cytotoxicity; Protection (Amano, S. (645) 347)

Current source density
Striate cortex; Rat; Electrophysiology; Slice (Kenan-Vaknin, G. (635) 37)

Dentate gyrus; CA1; Entorhinal cortex; Hippocampus; Tetracaine; Inhibition (Stringer, J.L. (641) 289)

Curve shift
Amphetamine; Dopamine; Intracranial self-stimulation; Reward; Reinforcement; Nucleus accumbens; Caudate-putamen (Ranaldi, R. (642) 251)

Cutaneous
Afferent pathway; Development; Fetal; Structure; Function (Rees, S. (661) 207)

Cutaneous reflex
Long-latency reflex; Cortex; Magnetic stimulation; Human (Ohki, Y. (633) 343)

Cu / Zn-SOD mRNA
6-Hydroxydopamine; Lipid peroxidation; Thiobarbituric acid-reacting substance; Superoxide dismutase (Ogawa, N. (646) 337)

Cu,Zn-superoxide dismutase
Brain edema; Contusion; Hypothermia; Northern blotting; Specific gravity (Fukuhara, T. (657) 333)

Cyanide
Hypoxia; Protein kinase C; Arachidonic acid; Inward current; Reticulospinal sympathoexcitatory neuron; Rostral ventrolateral medulla (Sun, M.-K. (636) 245)

Nitric oxide; Hypoxia; NMDA receptor; Excitotoxicity; Transmitter release (Akira, T. (645) 285)

Glucocorticoid; Ischemia; Hippocampus; Cell culture; D-Aspartate (Chou, Y.-C. (654) 8)

Cyclic guanosine 3'5'-monophosphate
ATP; Energy metabolite; Intracellular pH; Lactate; Phosphocreatine; Rat brain; Spreading depression (Gault, L.M. (641) 176)

Cyclin-dependent protein kinase
CDK5; cdc2-related protein kinase; CDK; In situ hybridization; Neuron; Development (Ino, H. (661) 196)

Cyclodiene insecticide
GABA receptor channel; Dieldrin; GABA receptor subunit; Human embryonic kidney cell; Chloride current (Nagata, K. (645) 19)

Cycloheximide
Etoposide; Programmed cell death; Neuronal cell death; CNS neuron; Actinomycin D (Nakajima, M. (641) 350)

Ethanol; Ethanol neurotoxicity; GM1; Neuroprotection; Septohippocampal system; Dorsal root ganglion (Heaton, M.B. (654) 336)

D-Cycloserine
Seizure; Glutamate; Amygdala; Rat; 7-Chlorokynurenic acid; (+)-HA-966 (Rundfeldt, C. (653) 125)

Cyclosporin A
Primary immunization; Microdialysis (in vivo); Serotonin; Frontal cortex (Gardier, A.M. (645) 150)

Calcineurin; Kindling; Rat brain; Hippocampus; Neocortex; FK506; Immunosuppressant (Moia, L.J.M.P. (648) 337)

Cysteamine
Memory and learning; Somatostatin; Cholinergic; Passive avoidance; Nucleus basalis magnocellularis; FR121196; Physostigmine (Matsuoka, N. (642) 11)

Vasoactive intestinal polypeptide; Somatostatin; Circadian rhythm; Suprachiasmatic nucleus; Enzyme immunoassay; Rat (Fukuhara, C. (645) 343)

Cytisine
Neuronal nicotinic receptor subunit; Mouse N1E-115 neuroblastoma cell; Whole-cell voltage clamp; Acetylcholine; Nicotine; Bungarotoxin (Zwart, R. (654) 312)

Cytoarchitecture
Aging; Differentiation; Development; Glia (Andersson, C. (646) 100)

Cytochalasin B
Senescence accelerated mouse (SAM); SAMP8; SAMR2; Glucose metabolism; Glucose transporter (Sato, E. (637) 133)

Cytochrome oxidase
Axotomy; Regeneration; Motoneuron (Iannuzzelli, P.G. (637) 267)

Central auditory system; Quantitative histochemistry; Gerbil (Gonzalez-Lima, F. (660) 34)

Cytochrome P450
Lateral septum; Bed nucleus of stria terminalis; Somatospiny neuron; Androgen (Jakab, R.L. (664) 85)

Cytokine
Human astrocyte culture; Trauma; Interleukin-6 (Hariri, R.J. (636) 139)

Antibody; Sleep deprivation; Electroencephalogram (Opp, M.R. (639) 57)

Morphine tolerance; Morphine abstinence; Mouse; B-Lymphocyte; T-Lymphocyte; Natural killer cell; Cytotoxic T-lymphocyte (Bhargava, H.N. (642) 1)

Interleukin-10; Gene; Malignant glioma; Polymerase chain reaction (Nitta, T. (649) 122)

Theta rhythm; Recurrent inhibition; Interneuron; Septohippocampal; Acetylcholine (Steffensen, S.C. (652) 149)

Adult human; Astrogliosis; Interferon; Interleukin; Proliferation; Tumor necrosis factor (Tejada-Berges, T. (653) 297)

Scrapie; Prostaglandin; Lipocortin; Astrocyte; Mouse; Neurodegeneration (Williams, A.E. (654) 200)

β-Adrenoceptor; Corticotropin-releasing factor; Dexamethasone; Forskolin; Isoproterenol; Glucocorticoid; Somatostatin (Takao, T. (656) 177)

Tachykinin; Interleukin-1; Hypothalamus; Neurokinin A; Luteinising hormone; Castration (Kalra, P.S. (662) 178)

Cytokine-arachidonic acid cascade
Brain temperature; Muscimol; Microdialysis (Osborne, P.G. (661) 237)

Cytokine receptor
Human immunodeficiency virus; Nervous system; Phycoerythrin-conjugated; Laser scanning confocal microscopy (Masliah, E. (663) 1)

Cytoplasmic free Ca^{2+}
Neuroblastoma-glioma hybrid (NG108-15) cell; Non-specific cationic current; Perforated patch clamp technique; Fura-2 fluorometry (Tokutomi, N. (657) 202)

Cytoprotection
Estrogen; High-affinity choline uptake; Choline acetyltransferase; Learning; Memory (Singh, M. (644) 305)

Heat shock protein; Bilirubin; Gene expression (Takeda, A. (666) 120)

Cytosensor system
Ciliary neurotrophic factor; Metabolic rate; Signal transduction; SH-SY5Y cell (Johnson, R.M. (646) 327)

Cytoskeleton
Hippocampus; Immunohistochemistry; Immunoblot; Alzheimer's disease; Microtubule (Geddes, J.W. (633) 1)

Neurofilament protein; Axon; Poisson distribution; Cluster analysis; Statistical model; Probability; Space-time clustering (Hsieh, S.-T. (642) 316)

Alzheimer's disease; Astrocyte; Extracellular matrix; Huntington's disease; Immunocytochemistry; Parkinson's disease (DeWitt, D.A. (656) 205)

Cytosolic Ca^{2+}
Extracellular ATP; Cultured hypothalamic neuron (Chen, Z.P. (641) 249)

Hypercapnic acidosis; Voltage-gated Ca^{2+} channel blocker; D600; Glomus cell; Adult rabbit carotid body (Sato, M. (662) 251)

Cytosolic calcium
Brain capillary endothelial cell; Nitric oxide; Prostacyclin; Bradykinin; Angiotensin-converting enzyme inhibition (Wiemer, G. (638) 261)

Cytosolic free calcium
Cat adrenal chromaffin cell; Fura-2 microfluorometry; Cytosolic free sodium; SBFI microfluorometry; Cd^{2+}; Co^{2+} (Yamagami, K. (646) 295)

Cytosolic free sodium
Cat adrenal chromaffin cell; Cytosolic free calcium; Fura-2 microfluorometry; SBFI microfluorometry; Cd^{2+}; Co^{2+} (Yamagami, K. (646) 295)

Cytotoxicity
Astrocyte; Catalase; Free radical; Multiple sclerosis; Oligodendrocyte (Noble, P.G. (633) 83)

Cocaine; Benzoylecgonine; Neuroblastoma; Glioma; Neuron; Glia; Toxicity; Morphology (Lin, Y. (643) 108)

Neuronal cell; Astrocyte; Culture system; Humoral factor; Glutamate; Protection (Amano, S. (645) 347)

Amyloid protein fragment; Brain neuron; Ethidium bromide; Flow cytometer (Furukawa, K. (662) 259)

Cytotoxic T-lymphocyte
Morphine tolerance; Morphine abstinence; Mouse; B-Lymphocyte; T-Lymphocyte; Natural killer cell; Cytokine (Bhargava, H.N. (642) 1)

D

D_2
Aminotetralin; Autoreceptor; D_3; Dopamine; 7-OH-DPAT; (±)-7-Hydroxy-*N*,*N*-dipropylaminotetralin; Receptor; Tyrosine hydroxylase (Booth, R.G. (662) 283)

D_3
Aminotetralin; Autoreceptor; D_2; Dopamine; 7-OH-DPAT; (±)-7-Hydroxy-*N*,*N*-dipropylaminotetralin; Receptor; Tyrosine hydroxylase (Booth, R.G. (662) 283)

D600
Cytosolic Ca^{2+}; Hypercapnic acidosis; Voltage-gated Ca^{2+} channel blocker; Glomus cell; Adult rabbit carotid body (Sato, M. (662) 251)

DA
Rotation; Repeated amphetamine; Sensitization; Striatum; DA transporter; DA uptake (Mintz, M. (668) 239)

DALCE
Macronutrient intake; Opioid; Naltrexone; Beta-funaltrexamine; Naloxonazine; Nor-binaltorphamine; Naltrindole; Food deprivation; 2-Deoxy-D-glucose (Koch, J.E. (657) 191)

DAMGO
Endorphin receptor; Endorphin; In situ hybridization; μ Opioid receptor; Receptor autoradiography (Mansour, A. (643) 245)

Dark adaptation
Retina; Horizontal cell; Rod; Electrical coupling; Cone; Light adaptation (Mangel, S.C. (659) 55)

DARPP-32
Immediate-early gene; Psychotropic drug; Dopamine; Serotonin; Nitric oxide synthase; Hypothalamic-pituitary-adrenal axis (Torres, G. (647) 1)

Striatal graft; Allograft; Cell fate; Huntington's disease; Neuronal regeneration; Calbindin; Acetylcholinesterase; Tyrosine hydroxylase (Deacon, T.W. (668) 211)

DA transporter
Rotation; Repeated amphetamine; Sensitization; Striatum; DA; DA uptake (Mintz, M. (668) 239)

DA uptake
Rotation; Repeated amphetamine; Sensitization; Striatum; DA; DA transporter (Mintz, M. (668) 239)

21-Day treatment
Fluoxetine; Dorsal raphe nucleus; Suprachiasmatic nucleus; Serotonin overflow; Fast cyclic voltammetry; Serotonin 5-HT_{1A} autoreceptor; Serotonin 5-HT_{1B} autoreceptor (O'Connor, J.J. (640) 328)

DCG-IV
Metabotropic receptor; Quisqualate; Hippocampal slice; Phorbol ester (Genazzani, A.A. (659) 10)

Deafferentation
Optic nerve injury; Immunocytochemistry; Primate (Gutierrez, C. (651) 300)

Single unit; Somatosensory cortex; Cortical reorganization; Nerve transection; Electrophysiology; Chronic recording (Salimi, I. (656) 263)

Decapod
Neuropeptide; FMRFamide; CNS; Sensory afferent; Chemoreception; Immunocytochemistry; Crustacean (Schmidt, M. (653) 315)

Decay time constant
Miniature junctional current; Denervation; Coxal depressor muscle; Cockroach (Washio, H. (642) 77)

Decerebrate cat
Atropine sulfate; Autospectral analysis; Baroreceptor denervation; Physostigmine; Urethane anesthesia; 2–6-Hz oscillation (Orer, H.S. (661) 283)

Decerebrated
Rostroventromedial medulla; Nociception; Tail flick; On-cell; Off-cell; Unanesthetized (Clarke, R.W. (636) 169)

Decerebration
Phrenic nerve; Respiratory timing; Parabrachial complex; Inspiratory duration; Pons (Morrison, S.F. (652) 83)

Decortication
NMDA; AMPA; Kainate; Metabotropic; Neostriatum (Wüllner, U. (647) 209)

Deer mouse
Sex difference; Spatial learning; Water maze; Sex hormone; Seasonal difference; Reproductive status; Breeding and non-breeding (Galea, L.A.M. (635) 18)

Defense reaction
Vigilance reaction; Baroreceptor reflex; Hypothalamus; Medulla; Rabbit (Duan, Y.-F. (643) 218)

Microinjection; Blood pressure; Heart rate; Conscious rat (Itoi, K. (668) 100)

Defensive rage behavior
Excitatory amino acid; Aggressive behavior; Midbrain periaqueductal gray; Cat; Amygdala; Glutamate; Aspartate (Shaikh, M.B. (635) 187)

Defined medium
Adult cat; Carotid body; Cell culture; Dopamine; Hypoxia; Immunohistochemistry; Tyrosine hydroxylase (Shirahata, M. (658) 60)

Degeneration
Nerve regeneration; Peripheral nerve; Silicone; Implant; Matrix; Schwann cell (Zhao, Q. (633) 97)

Mechanoreceptor; Neuroma; Nerve injury; Myelinated fiber; Tinel sign (Koschorke, G.-M. (641) 99)

Rat; Axotomy; Platelet-derived growth factor; Platelet-derived growth factor receptor; Vagus nerve (Yamada, E. (651) 108)

Nucleus of solitary tract; Parabrachial nucleus; Central nucleus of the amygdala; *Phaseolus vulgaris* leucoagglutinin; Electron microscope; Rat (Jia, H.-G. (663) 181)

Dehydration
Fos; Lamina terminalis; OVLT; Median preoptic area; Supraoptic (McKinley, M.J. (653) 305)

Dehydroepiandrosterone sulfate
Hippocampus; CA1; Neurosteroid; Postsynaptic potential; Excitatory postsynaptic potential; Inhibitory postsynaptic potential; Field potential (Meyer, J.H. (633) 253)

Deiodinase
Fluoxetine; Thyroid hormone metabolism; Rat; Brain (Baumgartner, A. (635) 68)

Deiodination
Thyroid hormone; Thyroxine; Triiodothyronine; Hypothyroidism; Hyperthyroidism; Tricyclic antidepressant; Desmethylimipramine (Gordon, J.T. (634) 96)

Delayed-matching-to-position
Dopamine; Acetylcholine; Prefrontal cortex; Rat; Short-term memory (Broersen, L.M. (645) 113)

Delayed neuronal damage
Ischemia; Repetitive ischemia; GABA; Microdialysis; Substantia nigra reticulata (Shuaib, A. (666) 99)

Delayed neuronal death
Ischemia; Acetylcholine; Microdialysis; Hippocampus; Gerbil (Ishimaru, H. (639) 66)

Transient forebrain ischemia; Development; Gerbil hippocampus; Heatshock protein 70; Central nervous system (Soriano, M.A. (653) 191)

Cerebral ischemia; Gerbil; Post-ischemic hypothermia; Open field (Colbourne, F. (654) 265)

Delayed postischemic hypoperfusion
Hypothermia; Focal cerebral ischemia; Oxygen free radical; Ascorbate; Glutathione; Postischemic hyperperfusion (Karibe, H. (649) 12)

2D electrophoresis
Axoplasmic transport; Protein release; Exocytosis; Vagus nerve; Nerve regeneration (Remgård, P. (663) 326)

Delta
Sleep; Neurophysiology; EEG; Beta; Sigma; Fast Fourier transform; Computer analysis (Uchida, S. (659) 243)

Delta activity
Preoptic/anterior hypothalamus; NREM sleep; Slow-wave sleep; EEG; Thermoregulation; Warming (McGinty, D. (667) 273)

Delta sleep inducing peptide
Corticotropin-like intermediate lobe peptide; Vasoactive intestinal polypeptide; Nucleus raphe dorsalis; Serotonin; Slow wave sleep; Paradoxical sleep; Hypnogenic factor; Rat (El Kafi, B. (637) 211)

Dementia
Acetylcholine; Basal nucleus of Meynert; Diagonal band; Inbred strain; Substantia innominata; Septum; Neostriatum (Bentivoglio, A.R. (637) 181)

Aging; Free radical; Human brain; Lipid peroxidation; Oxidative stress (Palmer, A.M. (645) 338)

Amyotrophic lateral sclerosis; Corticocortical connection; Guam; Neurofibrillary tangle; Parkinsonism (Hof, P.R. (650) 107)

Alzheimer's disease; Nucelar magnetic resonance spectroscopy; *N*-Acetyl aspartate; Neurodegeneration; Imaging (Kwo-On-Yuen, P.F. (667) 167)

Dementia of the Alzheimer type
Dopamine uptake site; GBR-12935; Extrapyramidal symptom; Parkinson's disease (Allard, P.O. (637) 262)

Demyelination
Globoid cell leukodystrophy; Krabbe disease; Autoradiography; Peripheral nerve (Komiyama, A. (637) 106)

Myelin; Myelin deficiency; Multiple sclerosis; Seizure; Tremor; Cerebellum (Rosenbluth, J. (650) 85)

Dendrite
Thalamus; Electrophysiology; Intracellular filling; Somatosensory system (Havton, L.A. (638) 126)

Cortex; Development; Recovery of function; Frontal cortex; Prefrontal cortex; Parietal cortex (Kolb, B. (645) 85)

Thalamus; Quantitative evaluation; Electrophysiology; Somatosensory system (Ohara, P.T. (648) 259)

Thalamus; Electrophysiology; Intracellular filling; Somatosensory system (Havton, L.A. (651) 76)

Dendritic branching
Female rat; Ovariectomy; Pyramidal cell; Parietal cortex; Neonatal exposure to testosterone (Stewart, J. (654) 149)

Dendritic release
Dopamine; NMDA; Substantia nigra; Pars compacta; Pars reticulata; Nomifensine; Tetrodotoxin (Gauchy, C. (635) 249)

Denervation
Miniature junctional current; Decay time constant; Coxal depressor muscle; Cockroach (Washio, H. (642) 77)

Nitric oxide; Acetylcholine; Carbachol; cGMP; Hemoglobin; Protein kinase C; Rat superior cervical sympathetic ganglia; Axotomy (Ando, M. (650) 283)

Dense bodies
Neuron; Lysosome; Leupeptin; Protease inhibitor; Amyloid precursor protein; Alzheimer's disease (Hajimohammadreza, I. (640) 25)

Dental pulp
L-DOPA; Nerve fiber; Rat; Measurement; Immunolocalization (Inoue, K. (657) 307)

Dentate gyrus
Kindling; Transfer kindling; Epilepsy; Entorhinal cortex; Perforant path; Neural plasticity (Spiller, A.E. (635) 130)

Kindling; Transfer kindling; Epilepsy; Entorhinal cortex; Perforant path; Neural plasticity (Spiller, A.E. (635) 139)

Entorhinal cortex; Pentylenetetrazol; Hippocampus; Tetrodotoxin; Epileptiform activity (Stringer, J.L. (636) 221)

CA1; Entorhinal cortex; Hippocampus; Tetracaine; Current source density; Inhibition (Stringer, J.L. (641) 289)

Serotonin; Spatial learning; Hippocampus; Granule cell; Interneuron (Richter-Levin, G. (642) 111)

Long-term potentiation; Fucose; 2'-Fucosyllactose (Krug, M. (643) 130)

Ginsenoside Rb1; Malonylginsenoside Rb1; Ginsenoside Rg1; Long-term potentiation; Anesthetized rat (Abe, K. (649) 7)

Olfaction; Fast wave; Slow wave; Toluene; Noxious stimulation; Rat; Scopolamine (Heale, V.R. (652) 235)

Status epilepticus; Kindling; Neurophysiology; Chronic epileptogenicity; Perforant path; Spontaneous generalized convulsion (Shirasaka, Y. (655) 33)

Adrenalectomy; Spatial memory; Radial arm maze; Corticosterone; Adrenal steroid (Vaher, P.R. (656) 71)

Somatic spine; Development; Synaptogenesis; In vitro slice; Hippocampus (Wenzel, J. (656) 127)

Neurotransmitter; Excitatory amino acid; Glutamate; Hippocampus; Glutamate oxidase; Ascorbate oxidase (Hu, Y. (659) 117)

Hippocampus; Corticosterone; AMPA receptor; NMDA receptor (Shors, T.J. (666) 232)

2-Deoxy-D-glucose
c-*fos*; Vagus nerve; Glucoprivation; Lipoprivation; Glucoreceptor; 2-Mercaptoacetate; Rat brain (Ritter, S. (641) 111)

Macronutrient intake; Opioid; Naltrexone; Beta-funaltrexamine; Naloxonazine; Nor-binaltorphamine; DALCE; Naltrindole; Food deprivation (Koch, J.E. (657) 191)

Area postrema; Estrous cycle; Glucoprivation; Lordosis; Metabolic fuel; Nucleus tractus solitarii (Schneider, J.E. (661) 70)

Deoxyglucose
Scopolamine; Physostigmine; Alzheimer's disease (Blin, J. (635) 196)

Olfaction; Odor recognition; Odor discrimination; Odor coding (Lu, X.-C.M. (639) 26)

Astrocyte; Cerebellar granule cell; Cerebral cortical neuron; Energy metabolism; Potassium (Peng, L. (663) 168)

2-Deoxyglucose
CI-977; κ Opioid receptor; Autoradiography; CNS depression (Mackay, K.B. (642) 160)

MPTP; MPP^+; Glutamate; Aspartate; ATP; Energy metabolism; Parkinsonism (Chan, P. (647) 249)

Pigeon; Subfornical organ; Thirst; Water deprivation (Heuston, K. (654) 331)

Development; Chronic treatment; Diazepam; Benzodiazepine; Cerebral energy metabolism (Schroeder, H. (660) 144)

Anterior hypothalamus; Medial preoptic area; Reptile; Ventromedial hypothalamus (Rand, M.S. (663) 163)

Glucose utilization; Morphine; Pain; Limbic system; Footshock; Analgesia (Gescuk, B. (663) 303)

Hyperglycemia; Microwave irradiation; Microdissection; VMH; PVN; LH; Acetylcholine; Norepinephrine (Takahashi, A. (665) 13)

Olfactory bulbectomy; Amygdala; Brain slice; Cerebral cortex (Shibata, S. (665) 147)

Rilmenidine; B-HT 933; Cerebral glucose utilization; Hypotension; Spontaneously hypertensive rat; Brainstem (Browne, S.E. (666) 216)

Deoxyglucose autoradiography
Substantia nigra; γ-Aminobutyric acid; Receptor subunit; Seizure; Hybridization, in situ; Infant; Rat (Moshé, S.L. (665) 141)

2-Deoxyglucose method
Cerebral glucose utilization; Adrenalectomy; Corticosterone; Limbic system (Doyle, P. (655) 115)

2-Deoxyglucose study
Suprochiasmatic nucleus; Hypothalamic graft (Servière, J. (655) 168)

Deoxysugar
Glutamate; Central nervous system depression; NBQX; LY-293558; Autoradiography (Browne, S.E. (641) 10)

Dependence
Opioid; NMDA; Kainate; AMPA; Spinal cord; Excitatory amino acid (Yukhananov, R.Yu. (646) 194)

NMDA; Morphine; MK-801; Withdrawal (Kreeger, J.S. (663) 101)

Depolarization
Cerebral anoxia; Cerebral ischemia; Hippocampus; Calcium; Sodium; Potassium; ATP (Kass, I.S. (633) 262)

LY163502; cAMP; Glutamate; G protein (Sim, L.J. (651) 311)

Cerebellar granule neuron; Potassium; Apoptosis; Excitotoxicity; Excitatory amino acid receptor (Weller, G.-M.Y.B.N.M. (656) 43)

Deprenyl
p-Chloroamphetamine; Neurotoxicity; Serotonin uptake site; Monoamine oxidase; Pargyline; Clorgyline (Benmansour, S. (650) 305)

Depression
Adenylyl cyclase; G-protein; Postmortem human brain; Suicide (Cowburn, R.F. (633) 297)

Serotonin 5-HT_2 binding site; Suicide; Human post-mortem brain; Antidepressant drug; Ketanserin (Lowther, S. (642) 281)

Glutamate; Arachidonic acid; AMPA receptor; Cerebellum; Hippocampus (Kovalchuk, Y. (643) 287)

Norepinephrine; Limbic system; Wistar–Kyotot rat; Stress; Animal model (Tejani-Butt, S.M. (649) 27)

Deprivation
Glia; Astrocyte; Plasticity; Visual system; Afferent activity (Canady, K.S. (663) 206)

Descending facilitation
Capsaicin; Descending inhibition; Tail flick reflex; Spinal dorsal horn neuron (Zhuo, M. (645) 164)

Descending inhibition
Capsaicin; Descending facilitation; Tail flick reflex; Spinal dorsal horn neuron (Zhuo, M. (645) 164)

Auditory system; Spike activity; Acoustic stimulus; Auditory cortex; A_I cortex (Piesman, M. (657) 320)

Descending inhibitory pathway
Antinociception; Periaqueductal gray; Rostral ventromedial medulla; Morphine; Lidocaine (Urban, M.O. (652) 9)

Desensitization
Capsaicin; Piperine; Glossopharyngeal nerve; Electrophysiology; Cross-adaptation (Yoshii, K. (637) 68)

Serotonin 5-HT_{1A} receptor; Ovariectomized rat; Intact rat; Female sexual behavior (Uphouse, L. (637) 173)

Angiotensin III; Bestatin; Subfornical organ; Brain slice; Single neuron activity; Normotensive rat; Spontaneously hypertensive rat (Yang, C.C.H. (638) 169)

Melatonin receptor; Light-dark cycle; Pars tuberalis; Suprachiasmatic nucleus; Pinealectomy; Constant darkness (Gauer, F. (641) 92)

Nodose ganglion; 5-HT_3 receptor; Patch-clamp; Forskolin; cAMP (Fan, P. (650) 16)

Nicotinic acetylcholine receptor; Non-contractile calcium; Neuromuscular blocker (Tsuneki, H. (650) 299)

Desethylcoronaridine
Ibogaine; Harmaline; Tabernanthine; Coronaridine; Ibogamine; Morphine; Cocaine; Drug self-administration (Glick, S.D. (657) 14)

Desmethylimipramine
Thyroid hormone; Thyroxine; Triiodothyronine; Hypothyroidism; Hyperthyroidism; Tricyclic antidepressant; Deiodination (Gordon, J.T. (634) 96)

Desynchronized sleep
Muscarinic receptor; Muscarinic antagonist; Pontine reticular nucleus; Rat; Methoctramine (Imeri, L. (636) 68)

Devazepide
Cholecystokinin; Opioid; Heroin self-administration; Morphine drug discrimination; L365-260; Dopamine; Haloperidol (Higgins, G.A. (640) 246)

Development
Calcium current; Retina; Ganglion cell; ω-CgTx; Nifedipine (Guenther, E. (633) 223)

GABA; Parvalbumin; Lizard; Cerebral cortex (Martínez-Guijarro, F.J. (634) 168)

Alcohol; Purkinje neuron; Calcium current; Fetal alcohol syndrome; Central nervous system; Neuron (Gruol, D.L. (634) 283)

Glutamate receptor channel; NMDA receptor channel; ϵ Subunit; ζ Subunit; In situ hybridization; Mouse; Retina (Watanabe, M. (634) 328)

Dopamine; Tyrosine (Santana, C. (635) 96)

Interleukin-6 mRNA; Interleukin-6 receptor mRNA; RT-PCR; Central nervous system (Gadient, R.A. (637) 10)

Cat; Vision; Activity; Cloning; mRNA; Gene expression; Sequence identity (Prasad, S.S. (639) 73)

Cell adhesion; Immunoglobulin superfamily; Pain pathway; Basal ganglia; Limbic system; Circumventricular organ; Cerebral cortex; Monoclonal antibody (Peduzzi, J.D. (640) 296)

β-Amyloid precursor protein; Human fetal spinal cord; Immunostaining; Western blot analysis (Arai, H. (642) 132)

Fetal; Muscle spindle; Structure; Function (Rees, S. (642) 185)

β-Endorphin; Opioid; DNA synthesis; Spinal cord; Intrathecal injection; Analgesia; Nociception (Bartolome, J.V. (642) 311)

Central nervous system; G protein; Adenylyl cyclase (Rius, R.A. (643) 50)

Septo-hippocampal system; Muscarinic cholinergic receptor; Cholineacetyltransferase; Lead; Perinatal exposure; Rat (Bielarczyk, H. (643) 211)

Vasocative intestinal peptide; mRNA; Suprachiasmatic nucleus; Biological clock (Glazer, R. (644) 164)

Hotfoot; Neurological mutation; Ataxia; Monoamine; Amphetamine; Motor behavior; Thermoregulation (Draski, L.J. (645) 69)

Cortex; Recovery of function; Frontal cortex; Prefrontal cortex; Parietal cortex; Dendrite (Kolb, B. (645) 85)

Aging; Differentiation; Cytoarchitecture; Glia (Andersson, C. (646) 100)

Uptake; Dopamine; Serotonin; Transporter; Fetal; Rat; Monoamine (Hyde, C.E. (646) 118)

Frontal cortex; Testosterone; Estradiol; Aromatase inhibitor; Dopamine; Noradrenaline; Perinatal life (Stewart, J. (646) 157)

Senescence-accelerated mouse; Nerve growth factor; Neurotrophin; Hippocampus; mRNA (Kaisho, Y. (647) 139)

NMDA receptor; Nucleus tractus solitarii; Mg^{2+} block; Protein kinase C; Glycine (Nabekura, J. (648) 152)

Nitric oxide; Nitric oxide synthase; NADPH-diaphorase; Calcium current; cGMP; Dorsal root ganglion (Ward, S.M. (648) 249)

Primate; Area 17; Visual cortex; Somatosensory cortex; Corpus callosum (Beck, P.D. (651) 57)

CREB; Transcription factor; Somatostatin; Neocortex; In situ hybridization; Immunocytochemistry (Imaki, J. (651) 269)

Autoradiography; Respiration; Receptor; Sheep; Fetus; Newborn; Adult; Birth (Tai, T.-C. (652) 28)

Morphometry; Association cortex; Golgi; Basal dendrite; Section thickness (Koenderink, M.J.Th. (653) 173)

Transient forebrain ischemia; Gerbil hippocampus; Heatshock protein 70; Delayed neuronal death; Central nervous system (Soriano, M.A. (653) 191)

Somatic spine; Synaptogenesis; In vitro slice; Hippocampus; Dentate gyrus (Wenzel, J. (656) 127)

Human (Dure IV, L.S. (659) 33)

2-Deoxyglucose; Chronic treatment; Diazepam; Benzodiazepine; Cerebral energy metabolism (Schroeder, H. (660) 144)

Auditory receptor; Fetus; Overproduction; Organotypic culture (Abdouh, A. (660) 181)

β-Endorphin; Cholecystokinin octapeptide; CCK-8; DNA synthesis; Growth (Bartolome, J.V. (661) 19)

CDK5; cdc2-related protein kinase; Cyclin-dependent protein kinase; CDK; In situ hybridization; Neuron (Ino, H. (661) 196)

Cutaneous; Afferent pathway; Fetal; Structure; Function (Rees, S. (661) 207)

Migration; Neuron; Embryo; Receptor (Behar, T.N. (664) 155)

NMDA; Receptor; D-AP5; Microiontophoresis in vitro hippocampus; Rat (Gorter, J.A. (665) 63)

Protein kinase C; Second messenger; Ontogeny; Rat; Hippocampus; Autoradiography (Lee, E.J. (665) 127)

N-Methyl-D-aspartate; MK-801; Sympathetic; Rhythm (Sica, A.L. (665) 323)

Neurotrophin-3; Enzyme immunoassay; Nerve growth factor; β-Galactosidase; Hippocampus (Kaisho, Y. (666) 143)

Vomeronasal axon; Fasciculation; Lectin; Organotypic culture; Glycoconjugate (Ichikawa, M. (668) 252)

Developmental
Hypoxic/ischemic injury; Neonatal; Perinatal brain injury (Grafe, M.R. (653) 161)

Developmental neurotoxicology
Triethyltin sulfate; Glial fibrillary acidic protein; Glial fibrillary acidic protein; Spatial delayed alternation (Freeman Jr., J.H. (634) 85)

Developmental regulation
Hemoglobin; Neuron; Free radical; Neuronal degeneration (Ohyagi, Y. (635) 323)

Developmental upregulation
Blood–brain barrier glucose transporter; Kinetic constant; GLUT1 isoform; Quantitative immunogold electron microscopy; Luminal and abluminal membrane; Neonate; Suckling; Weanling and adult; Cerebral blood flow; Permeability-surface area product (Cornford, E.M. (663) 7)

Dexamethasone
Polyamine; Lithium; Ornithine decarboxylase; Putrescine; Spermidine; Spermine; Brain; Rat (Gilad, G.M. (636) 187)

Mycoplasma; Nitric oxide; Tumor necrosis factor α; Prostaglandin E_2; Glial cell; Multiple sclerosis; AIDS dementia (Brenner, T. (641) 51)

β-Adrenoceptor; Corticotropin-releasing factor; Cytokine; Forskolin; Isoproterenol; Glucocorticoid; Somatostatin (Takao, T. (656) 177)

(Na + K)ATPase; Adrenalectomy; In situ hybridization (Grillo, C. (657) 83)

Dexmedetomidine
Cholecystokinin; α_2-Adrenergic; μ Opioid; Cholecystokinin-B antagonist; L365,260; PD135158; Spinal; Antinociception (Sullivan, A.F. (662) 141)

Dextran-tetramethylrhodamine-biotin
External cuneate nucleus; Brainstem; Gerbil (Lan, C.-T. (668) 107)

Dextromethorphan
N-Methyl-D-aspartate; Hippocampus (Church, J. (666) 189)

Dextrorphan
Morphine; Analgesia; NMDA receptor; Opiate tolerance; MK-801; Dizocilpine; Phencyclidine; Ketamine; Neuroplasticity (Trujillo, K.A. (633) 178)

Diabetes
Reward; Opioid; Streptozotocin (Carr, K.D. (664) 211)

Diagonal band
Acetylcholine; Basal nucleus of Meynert; Dementia; Inbred strain; Substantia innominata; Septum; Neostriatum (Bentivoglio, A.R. (637) 181)

Acetylcholine; Microdialysis; Hippocampus; Basal forebrain; Dual probe; Glutamate; Receptor; Kainate; NMDA; Medial septum; Septal stimulation (Moor, E. (648) 32)

Diagonal ventral forebrain continuum
Central nucleus of the amygdala; Substantia innominata; Bed nucleus of stria terminalis; Parabrachial nucleus; Vagal nucleus (Schmued, L.C. (667) 175)

Dialysis
Acetylcholine; Electrical stimulation; Prefrontal cortex; Striatum (Taber, M.T. (639) 354)

Diaphragm
Antitussive; Codeine; Abdominal (Bolser, D.C. (662) 25)

Diazepam
Sexual dimorphism; Accessory olfactory bulb; Vomeronasal system; Neurofunctional teratology; $GABA_A$ receptor (Pérez-Laso, C. (634) 1)

Cerebral ischemia; $GABA_A$ receptor; Neuroprotection; GABA; Hippocampus (Schwartz, R.D. (647) 153)

Methamphetamine; Neurotoxicity; Environmental temperature; Dopamine; Serotonin; MK-801; Phenobarbital (Ali, S.F. (658) 33)

Hyperalgesia; Ischemia; Convergent neuron; Benzodiazepine; Reperfusion; Hyperexcitability (Cartmell, S.M. (659) 82)

2-Deoxyglucose; Development; Chronic treatment; Benzodiazepine; Cerebral energy metabolism (Schroeder, H. (660) 144)

Diazepam-insensitive receptor
Cerebellum; Benzodiazepine; Electrophysiology (Pringle, A.K. (665) 222)

cAMD Dibutyryl
Astrocyte; Calcium flux; Cellular calcium compartment; Hypoosmotic stress; Volume regulation (Bender, A.S. (645) 27)

Dibutyryl cAMP
Ca^{2+} channel; Ca^{2+} pool; NG108-15 cell (Chueh, S.-H. (660) 81)

Dichlorofluorescin
Alzheimer's disease; Amyloid peptide; Calcium; Free radical; Indomethacin; Iron-catalyzed oxidation; Lipoxygenase; Neurodegeneration (Goodman, Y. (654) 171)

2′,7′-Dichlorofluorescin diacetate
Brain neuron; Reactive oxygen species; Hydrogen peroxide; Fluorescent dye (Oyama, Y. (635) 113)

Brain neuron; *Ginkgo biloba*; Flavonoid; Oxidative metabolism; Reactive oxygen species (Oyama, Y. (635) 125)

Cerebellar neuron; *N,N*-Diethyldithiocarbamate; Ionomycin; Oxidative metabolism (Oyama, Y. (660) 158)

Dieldrin
GABA receptor channel; Cyclodiene insecticide; GABA receptor subunit; Human embryonic kidney cell; Chloride current (Nagata, K. (645) 19)

Diencephalon
Neural transplantation; Parkinson's disease; Dopamine; Cryopreservation; Mesencephalon; Human embryo (Frodl, E.M. (647) 286)

Lithium; Pilocarpine; Seizure-induced damage; Telencephalon; Rat brain damage (Bureau, Y.R.J. (648) 265)

Diethyldithiocarbamate
Brain ischemia; Cerebral blood flow; Electron paramagnetic resonance; Nitric oxide; Reperfusion (Sato, S. (647) 91)

MPTP; Parkinsonism; MK-801; NMDA receptor; MPP^+; Substantia nigra (Vaglini, F. (668) 194)

***N,N*-Diethyldithiocarbamate**
Cerebellar neuron; 2′,7′-Dichlorofluorescin diacetate; Ionomycin; Oxidative metabolism (Oyama, Y. (660) 158)

Differential PCR display
Acetylcholinesterase; AF64A; Butyrylcholinesterase; Hippocampus; Reverse transcriptase-PCR; Septum (Lev-Lehman, E. (661) 75)

Differentiation
Glia; Fractal dimension (Smith Jr., T.G. (634) 181)

Endothelium; Glioma; Microvessel; Blood–brain barrier (Arosarena, O. (640) 98)

Aging; Development; Cytoarchitecture; Glia (Andersson, C. (646) 100)

Astrocyte; Proliferation; Neuron; Humoral factor; Cell culture (Ohashi, M. (655) 255)

TRH; Cell line; Neuroblastoma; IMR32 pyroglutamyl-glutamyl-prolineamide; Neuron (Rondeel, J.M.M. (665) 262)

Digastric
Active sleep; Postsynaptic inhibition; Parvocellularis; Ponto-geniculo-occipital wave (Pedroarena, C. (653) 31)

Dihydrexidine
Monkey; Parkinsonism; Dopamine (Schneider, J.S. (663) 140)

Dihydro-β-erythroidine
Nicotine; Mesolimbic dopamine; Pedunculopontine tegmental nucleus; Cholinergic; Reinforcement; Cocaine (Corrigall, W.A. (653) 278)

2,3-Dihydro-6-nitro-7-sulfamoyl-benzo(f)-quinoxaline
AMPA receptor; L-Glutamate; AMPA; NS-257; Autoradiography; Rat (Porter, R.H.P. (664) 202)

Dihydropyridine
Ethanol; Adenosine receptor; Locomotor activity; Calcium channel; Caffeine (Daly, J.W. (650) 153)

AMPA; Zn^{2+}; Neurotoxicity; Neuroprotection; Nimodipine; Enantiomer; L-type Ca^{2+} channel (Freund, W.-D. (654) 257)

Dihydroxyphenylacetic acid
Dopamine; Prolactin; Tyrosine hydroxylase; Gender difference; Hamster (Krajnak, K. (634) 159)

Microdialysis; Dopamine; 5-Hydroxyindoleacetic acid; Nucleus accumbens; Medial preoptic area; Medial basal hypothalamus; Masculine sexual behavior (Fumero, B. (662) 233)

Dihydroxyphenylalanine; Hemorrhage; 5-Hydroxyindoleacetic acid; Homovanillic acid; Hypothalamic paraventricular nucleus; In vivo microdialysis; Noradrenaline (Morris, M.J. (665) 5)

Dihydroxyphenylalanine
Dihydroxyphenylacetic acid; Hemorrhage; 5-Hydroxyindoleacetic acid; Homovanillic acid; Hypothalamic paraventricular nucleus; In vivo microdialysis; Noradrenaline (Morris, M.J. (665) 5)

Dihydroxy-tetrahydroisoquinoline
Tryptophan hydroxylase; Condensation product; Tetrahydro-β-carboline; Catechol structure; MPTP; MPP^+ (Matsubara, K. (655) 121)

5,7-Dihydroxytryptamine
Astrocyte reactivity; Serotonin; Glial fibrillary acidic protein; Glutamine synthetase (Fages, C. (639) 161)

Thyrotropin-releasing hormone; Serotonin; Monosynaptic reflex; Spinal cord; Neonatal rat (Deshpande, S.B. (655) 263)

Serotonin 5-HT_{1B} receptor; Parachlorophenylalanine; L-5-Hydroxytryptophan; Upregulation; Time course; Quantitative autoradiography; Suprachiasmatic nucleus; Rat (Manrique, C. (663) 93)

Milnacipran; Paroxetine; Antidepressant-binding sites; Serotonin transporter; Autoradiography; Lesion (Barone, P. (668) 129)

DiI
Myotoxin; Neurotoxin; Facial nerve; Retrograde tracing; Orbicularis oculi muscle (McLoon, L.K. (641) 105)

Bulbospinal neuron; Whole-cell recording; Retrograde transport; Brainstem slice (Kangrga, I.M. (641) 181)

Dopamine neuron; Substantia nigra; Flow cytometry; Tissue culture; Fluorescence-activated cell sorting (Kerr, C.W. (665) 300)

Di-I
Junctional epithelium; Retrograde axonal transport; Trigeminal nerve fiber; Epithelial permeability (Sugaya, A. (653) 330)

1,3-Dipropyl-8-cyclopentylxanthine
Purine; Adenosine; Xanthine; Neuroprotection; Kainic acid; Neurodegeneration (Macgregor, D.G. (644) 339)

Adenosine; Hypoxia; NMDA; Glutamate; Hippocampus; Excitatory postsynaptic potential (Canhão, P. (661) 265)

Directional hearing
Enucleation; Auditory map; Auditory development; Visual deprivation; Superior colliculus (Withington, D.J. (636) 348)

Direct pathway
Entopeduncular nucleus; Basal ganglia; *Phaseolus vulgaris*-leucoagglutinin; Biocytin; Globus pallidus; Indirect pathway (Bevan, M.D. (659) 99)

Discharge frequency
Neuronal discharge pattern; Response averaging (Johnson, J.L. (666) 125)

Discrimination
Cerebellum; Reversal conditioning; Eyelid conditioning; Multiple-unit recording; Rabbit (Gould, T.J. (652) 98)

Dissociated
Channel; Calcium; Nodose; Charybdotoxin (Hay, M. (639) 333)

Dissociated cell culture
Fibroblast growth factor; Melanotropic hormone; Rat spinal cord; Neurite extension; Neuronal survival (Peulve, P. (654) 319)

Dissociated neuron
Ethanol; Allosteric modulator; $GABA_A$ receptor; Patch clamp electrophysiology (Frye, G.D. (635) 283)

Dissociated pyramidal neuron
Rat; Hippocampus; Nystatin perforated patch; Sevoflurane; Chloride current (Wu, J. (645) 303)

Distribution
D-Serine; Vertebrate; Brain; Cerebrum; Cerebellum; NMDA receptor; D-Amino-acid oxidase (Nagata, Y. (634) 291)

1,3-Di-(2-tolyl)guanidine (DTG)
σ Opioid site; NMDA receptor; Dizocilpine; (MK-801); Amnesia model (Maurice, T. (647) 44)

Diurnal variation
Endogenous opioid; Naloxone; Sexual motivation; Sexual behavior (Van Furth, W.R. (636) 175)

Dizocilpine
Morphine; Analgesia; NMDA receptor; Opiate tolerance; MK-801; Phencyclidine; Dextrorphan; Ketamine; Neuroplasticity (Trujillo, K.A. (633) 178)

Pain; Neuropathic pain; Autotomy; MK-801; Nerve injury (Baños, J.E. (636) 107)

Dopamine; NMDA receptor; MK-801; Striatum; Microdialysis (Kiss, J.P. (641) 145)

σ Opioid site; NMDA receptor; 1,3-Di-(2-tolyl)guanidine (DTG); (MK-801); Amnesia model (Maurice, T. (647) 44)

MK-801; U-50,488H; κ Opioid receptor agonist; Analgesia; Tolerance (Bhargava, H.N. (649) 111)

Djungarian hamster
Age; Circadian; Hypothalamus; Immunocytochemistry; Neuropeptide; *Phodopus sungorus*; Rhythm; Photoperiod; Sex; Substance P; Suprachiasmatic nucleus (Reuss, S. (638) 189)

DMCM
Glia; Convulsant; Benzodiazepine; Cell culture; Patch-clamp (Rosewater, K. (636) 73)

cDNA
Glutamate transporter; Sequence; Hybridization, in situ; Neuron; Human brain (Shashidharan, P. (662) 245)

H-DNA
Gene expression; GAP-43; Transcription; Stable transfectant (Starr, R.G. (638) 211)

DNA fragmentation
Apoptosis; Cell death; Cortical neuron; Ultrastructure (Takei, N. (652) 65)

DNA repair
Suprachiasmatic nucleus; Supraoptic nucleus; Circadian rhythm; Fos; Apurinic/apymidinic endonuclease (Rivkees, S.A. (666) 137)

DNA synthesis
β-Endorphin; Opioid; Spinal cord; Intrathecal injection; Development; Analgesia; Nociception (Bartolome, J.V. (642) 311)

β-Endorphin; Cholecystokinin octapeptide; CCK-8; Growth; Development (Bartolome, J.V. (661) 19)

DNQX
NMDA; Non-NMDA; Formalin; Pain; PCP; CPP; MK-801 (Goettl, V.M. (642) 334)

DOI
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Nitric oxide; Learning; Memory; IMHV; Palaeostriatum augmentatum (Ambalavanar, R. (644) 160)

Domoic acid
N-Methyl-D-aspartate; Kainate; Homocysteic acid; Flupirtine; GABA immunoreactivity; Retina (Osborne, N.N. (667) 291)

Domperidone
Arterial chemoreceptor; Carotid body; Dopamine; Hyperoxia; Hypoxia (Iturriaga, R. (663) 145)

Prolactin; Receptor; Rat hypothalamus; Ovine prolactin; Bromocriptine; Pituitary implantation (Muccioli, G. (663) 244)

L-DOPA
MK-801; Reserpine; *p*-CPA; Catecholamine; Serotonin; Apomorphine; Bladder reflex (Yoshiyama, M. (639) 300)

Dopamine receptor; Autoradiography; Dopamine uptake site; Rat; 6-Hydroxydopamine (Gnanalingham, K.K. (640) 185)

Parkinson's disease; 6-Hydroxydopamine; Free radical; Hydroxyl radical; Bromocriptine; Neuroprotection (Ogawa, N. (657) 207)

Nerve fiber; Dental pulp; Rat; Measurement; Immunolocalization (Inoue, K. (657) 307)

Receptor supersensitivity; Dopamine; 6-Hydroxydopamine; Rotation Corticosterone (Carey, R.J. (658) 145)

Aromatic L-amino acid decarboxylase; Carbidopa; Dopamine; Serotonin neuron; Dorsal raphe nucleus; Rat (Arai, R. (667) 295)

DOPAC
NMDA; Dopamine; Homovanillic acid; Intracerebral dialysis (Whitton, P.S. (635) 312)

Dopamine; Nucleus accumbens; Ventral tegmental area; Baclofen; In vivo brain dialysis (Yoshida, M. (636) 111)

Adaptation; Chronic stress; Catecholamine; Adrenocorticotropic hormone; Corticosterone; Glucose (Lachuer, J. (638) 196)

Cocaine; Microdialysis; Dopamine; Homovanillic acid; Nucleus accumbens; Striatum; Medial prefrontal cortex (Glick, S.D. (653) 148)

Monoamine oxidase B; Transgenic mouse; MPTP; Dopamine; Tyrosine hydroxylase; Substantia nigra (Andersen, J.K. (656) 108)

Cholecystokinin octapeptide; Cholecystokinin tetrapeptide; Nucleus accumbens; Caudate-putamen; Dopamine; Homovanillic acid; In vivo microdialysis; Rat (Kariya, K. (657) 1)

Electrical stimulation; γ-Hydroxybutyrate; Lesion; Dopamine (Eaton, M.J. (659) 201)

Dopamine
Habenula; Stress; Fos; c-*fos*; Amphetamine; Apomorphine; Amfonelic acid (Wirtshafter, D. (633) 21)

Neural transplantation; Noradrenaline; 6-Hydroxydopamine; Tyrosine hydroxylase; Fiber outgrowth (Nikkhah, G. (633) 133)

Tyrosine hydroxylase; Substantia nigra; Haloperidol; In situ hybridization; Immunohistochemistry (Stork, O. (633) 213)

Phencyclidine; MK-801; Prefrontal cortex; Microdialysis (Hondo, H. (633) 337)

Accumbens; Catalepsy; GABA; Haloperidol; Microdialysis; Neostriatum; Tolerance (Osborne, P.G. (634) 20)

Basal ganglia; Glutamate; Excitatory postsynaptic potential; Accumbens; Electrophysiology; Intracellular recording (O'Donnell, P. (634) 105)

Nigrostriatal neuron; Tyrosine; Tyrosine hydroxylase; Juvenile-onset diabetes; Parkinson's disease; Psychosis; BB Wistar rat (Kono, T. (634) 155)

Dihydroxyphenylacetic acid; Prolactin; Tyrosine hydroxylase; Gender difference; Hamster (Krajnak, K. (634) 159)

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NMDA; DOPAC; Homovanillic acid; Intracerebral dialysis (Whitton, P.S. (635) 312)

DOPAC; Nucleus accumbens; Ventral tegmental area; Baclofen; In vivo brain dialysis (Yoshida, M. (636) 111)

Weaver; Mutant mouse; Nigrostriatal pathway; Substantia nigra (Schneider, J.S. (636) 353)

Striatum; Edge; Open field; Thigmotaxis; Neglect; 6-Hydroxydopamine lesion; Rotational behavior; Asymmetry (Sullivan, R.M. (637) 114)

Glucocorticoid receptor; Mineralocorticoid receptor; Methamphetamine; Adrenalectomy; Serotonin; Corticosterone (Lowy, M.T. (638) 175)

Parkinson's disease; Hypothalamus; Noradrenaline; Serotonin; Monoamine (Shannak, K. (639) 33)

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Spontaneously hypertensive rat; Wistar–Kyoto rat; Electrolytic lesion; Substantia nigra; Caudate nucleus; Blood pressure; In vitro superfusion (Linthorst, A.C.E. (639) 261)

Substantia nigra pars reticulata; Rodent; Dopamine D_1 receptor; Dopamine D_2 receptor; Apomorphine; Quinpirole; Striatonigral pathway (Yurek, D.M. (639) 329)

Striatum; Glutamate decarboxylase; Preproenkephalin; mRNA (Soghomonian, J.-J. (640) 146)

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NMDA receptor; MK-801; Dizocilpine; Striatum; Microdialysis (Kiss, J.P. (641) 145)

Luteinizing hormone; κ Opioid receptor; Norepinephrine; Medial basal hypothalamus; Pregnancy; Push–pull perfusion (Zhen, S. (642) 178)

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Glutamate analog; Nucleus accumbens; In vivo voltammetry; Spreading depression; Behavior; Rat (Svensson, L. (643) 155)

Methamphetamine; Neurotoxicity; Glutamate; Serotonin; Microdialysis (Abekawa, T. (643) 276)

Locus coeruleus; Olfactory bulb; Norepinephrine; Serotonin; Associative learning; Memory; Rat pup (Sullivan, R.M. (643) 306)

Cocaine; Dorsal horn neuron; Pain; Tail flick test; Spinal transection (Kiritsy-Roy, J.A. (644) 109)

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Brain microdialysis; Dopamine release; Glutamate; Glutamate receptor; NMDA receptor; Substantia nigra; Subthalamic nucleus (Rosales, M.G. (645) 335)

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Neural transplantation; Parkinson's disease; Cryopreservation; Diencephalon; Mesencephalon; Human embryo (Frodl, E.M. (647) 286)

Dopamine D_3 receptor; 7-Hydroxy-DPAT; Regional distribution; Autoradiography; Human brain (Herroelen, L. (648) 222)

Retina; Mouse; Retinal dystrophy; Light/dark (Nir, I. (649) 85)

Spontaneous [^{3}H]GABA release; Nicotine; Globus pallidus; Substantia nigra; Rat (Kayadjanian, N. (649) 129)

Arcuate nucleus; Double-labeling; Electron microscopy; Galanin; Hypothalamus; Immunocytochemistry; Interaction; TIDA; Tyrosine hydroxylase (Hrabovszky, E. (652) 49)

TIDA; Morphine; Haloperidol; Norepinephrine; Apomorphine; Luteinizing hormone; Prolactin; Tuberoinfundibular (He, J.-R. (653) 1)

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Periventricular-hypophysial; Mesolimbic; Stress; α-Melanocyte-stimulating hormone; α-Fluoromethylhistidine (Fleckenstein, A.E. (653) 267)

Norepinephrine; Amphetamine; Cocaine; Clonidine; Prefrontal cortex; Hippocampus; Microdialysis; Caudate (Florin, S.M. (654) 53)

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Glutamate; Kainate; Neuroprotection; Neurotoxicity; Primary culture; Striatum (Amano, T. (655) 61)

Apomorphine; Striatum; Cerebral asymmetry; Pharmacokinetics (Hyde, J.F. (655) 83)

Adrenocorticotropin hormone; Corticotropin-releasing factor; Interleukin-1β; NMDA receptor; Behavioral sensitization (Torres, G. (656) 33)

Monoamine oxidase B; Transgenic mouse; MPTP; DOPAC; Tyrosine hydroxylase; Substantia nigra (Andersen, J.K. (656) 108)

Cholecystokinin octapeptide; Cholecystokinin tetrapeptide; Nucleus accumbens; Caudate-putamen; DOPAC; Homovanillic acid; In vivo microdialysis; Rat (Kariya, K. (657) 1)

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Adult cat; Carotid body; Cell culture; Defined medium; Hypoxia; Immunohistochemistry; Tyrosine hydroxylase (Shirahata, M. (658) 60)

Tyrosine hydroxylase; Olfactory bulb; Enkephalin; Neuronal culture; Naloxone; Nimodipine (McMillian, M.K. (658) 105)

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Dystonia; Serotonin; Noradrenaline; Basal ganglia; Brainstem (Löscher, W. (658) 199)

p-Chloroamphetamine; Nucleus accumbens; Brain dialysis; Serotonin; Locomotor activity; Freely moving rat (Sugita, R. (658) 255)

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Horizontal cell; Gap junction; Neuromodulation (McMahon, D.G. (659) 110)

Electrical stimulation; γ-Hydroxybutyrate; Lesion; DOPAC (Eaton, M.J. (659) 201)

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Primary culture; Astrocyte; Serotonin; Norepinephrine; GABA; Glutamate; Peripheral benzodiazepine receptor (Itzhak, Y. (660) 346)

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6-Hydroxydopamine lesion; Basal ganglia; Motor function; On-off phenomenon (Papa, S.M. (662) 69)

Ca^{2+}-activated K^+ channel; Prolactin secretion; Pituitary cell; Nifedipine; Perifusion; Charybdotoxin; Apamin (Wang, X. (662) 83)

Morphine; Turnover; Norepinephrine; Hypothalamus; Preoptic area (Vathy, I. (662) 209)

Microdialysis; Dihydroxyphenylacetic acid; 5-Hydroxyindoleacetic acid; Nucleus accumbens; Medial preoptic area; Medial basal hypothalamus; Masculine sexual behavior (Fumero, B. (662) 233)

Aminotetralin; Autoreceptor; D_2; D_3; 7-OH-DPAT; (±)-7-Hydroxy-*N*,*N*-dipropylaminotetralin; Receptor; Tyrosine hydroxylase (Booth, R.G. (662) 283)

Dihydrexidine; Monkey; Parkinsonism (Schneider, J.S. (663) 140)

Arterial chemoreceptor; Carotid body; Domperidone; Hyperoxia; Hypoxia (Iturriaga, R. (663) 145)

Fibroblast growth factor; Gliosis; Monoamine oxidase; Aromatic L-amino acid decarboxylase (Wang, J. (663) 199)

Adrenaline; Estradiol; Hypothalamus; Luteinizing hormone; Luteinizing hormone-releasing hormone; Neuropeptide Y; Noradrenaline; Progesterone; Prolactin; Sexual differentiation (Crowley, W.R. (663) 257)

Stress; Amygdala; Frontal cortex; Fear (Davis, M. (664) 207)

Immune; Microdialysis; Homovanilic acid; 5-Hydroxyindoleacetic acid (Lacosta, S. (664) 225)

Nucleus accumbens core; Nucleus accumbens shell; NMDA receptor; Locomotor activity (Pulvirenti, L. (664) 231)

Tetrahydrobiopterin; Synaptosome; PC12 cell; 6-Hydroxydopamine; Tyrosine hydroxylase; Uptake (Anastasiadis, P.Z. (665) 77)

Ischemia; Hippocampus; Presynaptic fiber spike; CA1; Neuroprotection (Yamamoto, Y. (665) 151)

Neurotensin; Methamphetamine; Schizophrenia; Locomotion; SR 48692; Nucleus accumbens (Wagstaff, J.D. (665) 237)

Parkinson's disease; Dopamine-releasing protein; Neurotrophic factor; Substantia nigra; Corpus striatum; Rotation (Phelps, S.M. (666) 117)

Sensitization; Cocaine; Amphetamine; MK-801; Nucleus accumbens; Microdialysis (Wolf, M.E. (666) 223)

Microdialysis; High pressure; Narcosis; Rat; Striatum (Barthelemy-Requin, M. (667) 1)

Aromatic L-amino acid decarboxylase; L-DOPA; Carbidopa; Serotonin neuron; Dorsal raphe nucleus; Rat (Arai, R. (667) 295)

MPTP; Parkinson's disease; Norepinephrine; Locus ceruleus; Substantia nigra (Bing, G. (668) 261)

Dopamine agonist
Immediate early gene; c-*fos*; Prefrontal cortex; Intracerebral neural grafting; Transplantation; Embryonic ventral mesencephalon (Cenci, M.A. (665) 167)

Dopamine β-hydroxylase
Central amygdaloid nucleus; Bed nucleus of the stria terminalis; Substantia innominata; Tyrosine hydroxylase; Norepinephrine (Freedman, L.J. (633) 243)

Noradrenaline; Synapse; Paraventricular nucleus of the hypothalamus; Supraoptic nucleus; Locus ceruleus; Membrane turnover; Volume transmission (Aoki, C. (650) 181)

Immunotoxin; Sympathectomy; Autonomic; Saporin; Noradrenaline (Picklo, M.J. (666) 195)

Dopamine D_1 agonist
A-77636; Amphetamine; Brain stimulation reward; Caudate-putamen; Cortex; Dopamine D_2 agonist; Dopamine receptor; Nucleus accumbens; Quinpirole; Rat; Reinforcement (Ranaldi, R. (651) 283)

Dopamine D_1 receptor
Cocaine; c-*fos* gene expression; Subsensitivity; A-77636 (Asin, K.E. (637) 342)

$GABA_A$ receptor; TBPS binding; $^{36}Cl^-$ uptake; Roman high- and low-avoidance rats; Stress; Psychogenetic selection (Giorgi, O. (638) 13)

Sensitization; Cocaine; Dopamine; Dopamine D_2 receptor; Nimodipine; EEDQ (Burger, L.Y. (639) 228)

Substantia nigra pars reticulata; Dopamine; Rodent; Dopamine D_2 receptor; Apomorphine; Quinpirole; Striatonigral pathway (Yurek, D.M. (639) 329)

Dopamine D_1 receptor agonist
Dopamine D_1 receptor priming; Habituation; Locomotor activity; Neonatal 6-OHDA-lesioned rat (Moy, S.S. (645) 49)

Dopamine D_1 receptor binding
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Dopamine D_1 receptor priming
Dopamine D_1 receptor agonist; Habituation; Locomotor activity; Neonatal 6-OHDA-lesioned rat (Moy, S.S. (645) 49)

Dopamine D_2 agonist
A-77636; Amphetamine; Brain stimulation reward; Caudate-putamen; Cortex; Dopamine D_1 agonist; Dopamine receptor; Nucleus accumbens; Quinpirole; Rat; Reinforcement (Ranaldi, R. (651) 283)

Dopamine D_2 autoreceptor
Dopamine; Fast cyclic voltammetrey; Dopamine uptake inhibitor; Brain slice (Wieczorek, W.J. (657) 42)

Dopamine D_2 receptor
Sensitization; Cocaine; Dopamine; Dopamine D_1 receptor; Nimodipine; EEDQ (Burger, L.Y. (639) 228)

Substantia nigra pars reticulata; Dopamine; Rodent; Dopamine D_1 receptor; Apomorphine; Quinpirole; Striatonigral pathway (Yurek, D.M. (639) 329)

Morphine; DPDPE; U50488H; Opioid; Striatum; Nucleus accumbens; Guinea pig (Brent, P.J. (654) 191)

Positron emission tomography; Ketamine; NMDA receptor; Anesthesia; Striatum; Monkey (Onoe, H. (663) 191)

Dopamine D_3 receptor
Dopamine; 7-Hydroxy-DPAT; Regional distribution; Autoradiography; Human brain (Herroelen, L. (648) 222)

Dopamine metabolism
Sensory neglect; Spontaneous behavior; Turning; Thigmotactic scanning; Open-field; Parkinsonism; 6-Hydroxydopamine; Neostriatum; Substantia nigra (Fornaguera, J. (664) 178)

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Dopamine neuron
Morphine; Serotonin 5-HT_3 receptor; Serotonin 5-HT_3 antagonist; Ventral tegmental area (Gifford, A.N. (638) 325)

GM1 ganglioside; MPTP; Substantia nigra; Tissue culture; Tyrosine hydroxylase (Stull, N.D. (640) 308)

Behavioral sensitization; Electrochemistry; Dopamine release; Conditioning (Kiyatkin, E.A. (642) 228)

Serotonin; Ventral tegmental area; Substantia nigra (Pessia, M. (654) 324)

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Dopamine receptor
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Autoradiography; Dopamine uptake site; L-DOPA; Rat; 6-Hydroxydopamine (Gnanalingham, K.K. (640) 185)

7-Hydroxy-DPAT; G protein; Raclopride; Remoxipride; *N*-Propylnorapomorphine; Quinpirole; Magnesium (Liu, Y. (643) 343)

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A-77636; Amphetamine; Brain stimulation reward; Caudate-putamen; Cortex; Dopamine D_1 agonist; Dopamine D_2 agonist; Nucleus accumbens; Quinpirole; Rat; Reinforcement (Ranaldi, R. (651) 283)

Dopamine receptor agonist
Dopamine; Dopamine receptor antagonist; Voltammetry (Abraini, J.H. (642) 199)

Dopamine receptor antagonist
Dopamine; Dopamine receptor agonist; Voltammetry (Abraini, J.H. (642) 199)

Dopamine release
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Dopamine synthesis; Synaptosome; Striatum; NMDA receptor (Desce, J.-M. (640) 205)

Behavioral sensitization; Electrochemistry; Dopamine neuron; Conditioning (Kiyatkin, E.A. (642) 228)

Ceruletide; Medial prefrontal cortex; Vagotomy; Cholecystokinin antagonist; Brain dialysis (Hagino, Y. (644) 40)

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Retina; ON channel; 2-Amino-4-phosphonobutyric acid; ACPD; GABA; Picrotoxin; Excitatory amino acid; Glutamate receptor (Boatright, J.H. (649) 339)

3-Methoxytyramine; Cerebellum; Hippocampus; Electroconvulsive shock; Haloperidol; Mass fragmentography (Chrapusta, S.J. (655) 271)

Dopamine-releasing protein
Parkinson's disease; Neurotrophic factor; Dopamine; Substantia nigra; Corpus striatum; Rotation (Phelps, S.M. (666) 117)

Dopaminergic
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Adenovirus; Gene transfer; β-Galactosidase; Retrograde tracing; Substantia nigra (Ridoux, V. (648) 171)

Dopaminergic meso-telencephalic pathway
Neonatal lesion; Dopaminergic transplant; Neuropeptide Y; Immunohistochemistry (Abrous, D.N. (656) 169)

Dopaminergic neuron
Parkinson's disease; Autoimmunity; Complement; Serum (Defazio, G. (633) 206)

Excitatory amino acid; AMPA receptor; GABA; $GABA_A$ receptor; κ Opioid receptor (Wagner, E.J. (660) 319)

In vivo microdialysis; Striatum; Amantadine; Re-uptake inhibition; *N*-Methyl-D-aspartate receptor (Mizoguchi, K. (662) 255)

Dopaminergic transplant
Neonatal lesion; Neuropeptide Y; Dopaminergic meso-telencephalic pathway; Immunohistochemistry (Abrous, D.N. (656) 169)

Dopamine synthesis
Dopamine release; Synaptosome; Striatum; NMDA receptor (Desce, J.-M. (640) 205)

Dopamine transporter
Nitric oxide; Dopamine uptake; Glutamate (Pogun, S. (641) 83)

Insulin; Ventral tegmental area; Substantia nigra pars compacta; Catecholamine; In situ hybridization (Figlewicz, D.P. (644) 331)

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Dopamine turnover
Thyrotropin-releasing hormone; Hyperactivity; Nucleus accumbens; Vagotomy (Ogawa, N. (633) 167)

Dopamine uptake
Nitric oxide; Dopamine transporter; Glutamate (Pogun, S. (641) 83)

GBR-12935; Striatum; Asymmetry; Rotation; Amphetamine (Gordon, I. (646) 207)

Dopamine uptake inhibitor
Dopamine; Fast cyclic voltammetrey; Brain slice; Dopamine D_2 autoreceptor (Wieczorek, W.J. (657) 42)

Dopamine uptake site
GBR-12935; Extrapyramidal symptom; Dementia of the Alzheimer type; Parkinson's disease (Allard, P.O. (637) 262)

Cocaine; Prenatal; Mazindol; Striatum; Postnatal; Rat (Stadlin, A. (637) 345)

Dopamine receptor; Autoradiography; L-DOPA; Rat; 6-Hydroxydopamine (Gnanalingham, K.K. (640) 185)

δ opioid receptor
Butorphanol; Opioid; Feeding; Opioid antagonist; μ Opioid receptor; κ Opioid receptor; Norbinaltorphimine; β-Funaltrexamine; Naltrindole (Levine, A.S. (637) 242)

Dorsal cochlear nucleus
Inositol 1,4,5-trisphosphate receptor; Immunocytochemistry; Ectopic Purkinje cell; Vestibular complex (Rodrigo, J. (634) 191)

Dorsal column nucleus
Neurotrophic factor; Primary afferent; Somatosensory; Topography (Foschini, D.R. (646) 1)

Dorsal gray commissure
Dorsal root ganglion; Sacral spinal cord; Horseradish peroxidase; Nerve conduction velocity (Kawatani, M. (646) 26)

Dorsal horn
c-*fos*; Somatotopy; Peripheral nerve injury; Tibial nerve; Peroneal nerve (Sugimoto, T. (642) 348)

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Pain; Brainstem; Antinociception; Rostral ventrolateral medulla; Catecholamine (Siddall, P.J. (645) 61)

Immunoreactive cGMP; Immunoreactive cAMP; Carrageenan Inflammation; Hyperalgesia (Garry, M.G. (646) 135)

Pain; Carrageenan; Hyperalgesia; Nitric oxide; Nitric oxide synthase (Traub, R.J. (647) 113)

Angiotensin binding; Spinal cord; Intermediolateral nucleus; Sympathetic nervous system; Dorsal root ganglion; Parasympathetic nervous system (Oldfield, B.J. (650) 40)

Serotonin $5\text{-}HT_1$ receptor; Nociception; Intrathecal (Ali, Z. (661) 83)

Inflammation; Hyperalgesia; Aspartate; Glutamate; Spinal cord; Microdialysis; Glycine; Serine (Sluka, K.A. (664) 77)

Bradykinin; Tetrodotoxin-resistant; Primary afferent neuron sensitization; Synaptic plasticity; Intracellular recording; Rat (Jeftinija, S. (665) 69)

Central canal; Hyperalgesia; Lamina X; Pain (Traub, R.J. (668) 204)

Dorsal horn neuron
Cocaine; Pain; Tail flick test; Spinal transection; Dopamine (Kiritsy-Roy, J.A. (644) 109)

GABA immunoreactivity; Spinal cord; Ischemia (Zhang, A.-L. (656) 187)

Dorsal lateral geniculate nucleus
Superior colliculus; Corticotectal projection; Thalamic reticular nucleus; Posterior thalamic complex; Lateral posterior nucleus; Intralaminar thalamic nuclei (Deschênes, M. (664) 215)

Dorsal raphe
Bombesin; Gastrin-releasing peptide; Neuromedin B; Suprachiasmatic nucleus; Periventricular; Single cell; Action potential (Pinnock, R.D. (653) 119)

Dorsal raphe nucleus
Retina; Periaqueductal gray; Serotonin; Sleep; Wakefulness; Circadian rhythm; Tract tracing (Shen, H. (635) 159)

Basal ganglia; Globus pallidus; Substantia nigra; Pedunculopontine tegmental nucleus (Charara, A. (640) 155)

21-Day treatment; Fluoxetine; Suprachiasmatic nucleus; Serotonin overflow; Fast cyclic voltammetry; Serotonin $5\text{-}HT_{1A}$ autoreceptor; Serotonin $5\text{-}HT_{1B}$ autoreceptor (O'Connor, J.J. (640) 328)

Serotonin; REM sleep; Brainstem; Microdialysis (Portas, C.M. (648) 306)

Brown adipose tissue; Electrical stimulation; Thermogenesis (Dib, B. (650) 149)

Aromatic L-amino acid decarboxylase; L-DOPA; Carbidopa; Dopamine; Serotonin neuron; Rat (Arai, R. (667) 295)

Dorsal root axon
Regeneration; Glial environment; X-irradiation; Spinal cord (Sims, T.J. (634) 113)

Dorsal root ganglia
NADPH-diaphorase; Major pelvic ganglia; Nitric oxide synthase; Urinary bladder; Penis; Urethra; Lumbosacral spinal cord (Vizzard, M.A. (646) 279)

αMSH; ACTH analog; Calcium; cAMP; Spinal cord; Schwann cell (Hol, E.M. (662) 109)

Dorsal root ganglion
Calcium; Confocal microscopy; Nucleus; Fluo-3 (Utzschneider, D.A. (635) 231)

β-Tubulin; Neurofilament gene expression; Regeneration; Axotomy (Jiang, Y.Q. (637) 233)

Cisplatin; Taxol; Vincristine; Nerve growth factor; Rat (Konings, P.N.M. (640) 195)

Glucocorticoid; Adrenalectomy; Immunocytochemistry; Calcitonin gene-related peptide; Substance P; Galanin; Somatostatin (Coveñas, R. (640) 352)

Sacral spinal cord; Dorsal gray commissure; Horseradish peroxidase; Nerve conduction velocity (Kawatani, M. (646) 26)

Nitric oxide; Nitric oxide synthase; NADPH-diaphorase; Calcium current; cGMP; Development (Ward, S.M. (648) 249)

Angiotensin binding; Spinal cord; Intermediolateral nucleus; Sympathetic nervous system; Dorsal horn; Parasympathetic nervous system (Oldfield, B.J. (650) 40)

Action potential; Membrane current; Down's syndrome; Nerve growth factor; Trisomy 16 mouse; Trisomy 21 (Coan, E.J. (650) 161)

Tetrodotoxin; Sodium channel; Single sodium channel; Tetrodotoxin-resistant sodium channel (Roy, M.L. (650) 341)

Ethanol; Ethanol neurotoxicity; GM1; Cycloheximide; Neuroprotection; Septohippocampal system (Heaton, M.B. (654) 336)

Bradykinin; Capsaicin; Prostaglandin; Sensory neuron (Hingtgen, C.M. (655) 51)

Parvalbumin; Carbonic anhydrase; Calretinin; Trigeminal ganglion; Rat (Ichikawa, H. (655) 241)

Nerve injury; *trkB*; Neurotrophin; Immunocytochemistry (Foster, E. (659) 267)

Dorsal root ganglion neuron
Etorphine antagonism at excitatory opioid receptor; Morphine bimodal agonist action; Action potential shortening vs. prolongation; Naloxone-precipitated excitatory effect (Shen, K.-F. (636) 286)

U73122; Phospholipase C; Bradykinin; NG108-15; Intracellular calcium (Jin, W. (642) 237)

Cl^- current; Frog; $GABA_A$ receptor; Insecticide; Lindane; Subtype (Tokutomi, N. (643) 66)

Dorsal unpaired median neurones
Insect nervous system; Octopamine; FMRFamide; Insect heart (Stevenson, P.A. (638) 117)

Dorsal vagal complex
Raphe pallidus; Thyrotropin releasing hormone; Gastric motility; Glutamate; Rat (Garrick, T. (636) 343)

Fos; Cold; Paraventricular nucleus of the hypothalamus; Caudal raphe nucleus; Gastric lesion; Fecal output (Bonaz, B. (652) 56)

Dorsolateral funiculus
Hyperalgesia; Nucleus raphe magnus; Nucleus reticularis paragigantocellularis; Vagal afferent; Liver; Spinal cord; Lipopolysaccharide (Watkins, L.R. (639) 283)

Hyperalgesia; Subcutaneous formalin; Tail-flick test; Spinal transection; NMDA; Nitric oxide; L-NAME; APV; Rat (Wiertelak, E.P. (649) 19)

Double immunofluorescence
Cerebral circulation; Cerebral cortex; Acetylcholine; Microvessels; Cerebral blood flow; Immunocytochemistry (Chédotal, A. (646) 181)

Double labeling
Identified interneuron; Subesophageal ganglion; Homologous neuron; *Chorthippus mollis*; *Omocestus viridulus* (Lins, F. (635) 103)

Electron microscopy; Immunohistochemistry; Substantia nigra; Tyrosine hydroxylase; Basal ganglia; Ultrastructure (Karle, E.J. (646) 149)

Fos; Trigeminal spinal caudal subnucleus; Parabrachial nucleus; Fluoro-Gold; Immunocytochemistry; Formalin; Rat (Wang, L.G. (649) 62)

Double-labeling
Arcuate nucleus; Dopamine; Electron microscopy; Galanin; Hypothalamus; Immunocytochemistry; Interaction; TIDA; Tyrosine hydroxylase (Hrabovszky, E. (652) 49)

Double labeling
Basal forebrain; Choline acetyltransferase; Parvalbumin; Septo-hippocampal system; Inbred mouse; Quantitative analysis (Linke, R. (653) 73)

Double Y-maze
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FG 7142; γ-Aminobutyric acid; Memory; Muscimol; Nucleus basalis magnocellularis; Reference memory; Working memory (Smith, C.G. (666) 61)

Down-regulation
Morphine tolerance; Morphine abstinence; NMDA receptor; MK-801; Brain region; Spinal cord; Rat (Gudehithlu, K.P. (639) 269)

Down's syndrome
Action potential; Membrane current; Dorsal root ganglion; Nerve growth factor; Trisomy 16 mouse; Trisomy 21 (Coan, E.J. (650) 161)

DPAT
Serotonin; Suprachiasmatic nucleus; Entrainment; Circadian; Light; Metergoline; 5-CT; NAN-190; SDZ 216-525; Propranolol; $5\text{-}HT_{1A}$ receptor (Ying, S.-W. (651) 37)

DPDPE
Morphine; U50488H; Opioid; Dopamine D_2 receptor; Striatum; Nucleus accumbens; Guinea pig (Brent, P.J. (654) 191)

Drinking
Opioid antagonist; μ Opioid receptor; κ Opioid receptor; δ Opioid receptor; Angiotensin II; Hypertonic saline; Water intake (Ruegg, H. (635) 203)

Neuropeptide Y; Lateral ventricular; Feeding; Carbohydrate; Pattern of ingestion; Satiety; Sweet taste (Lynch, W.C. (636) 28)

Angiotensin AT_1 receptor; Angiotensin AT_2 receptor; Angiotensin receptor subtype; Antagonist; Blood pressure; Intracerebroventricular (Widdop, R.E. (648) 46)

Isoproterenol; Hypotension; β-Adrenoceptor; Renin–angiotensin system (Kirby, R.F. (656) 79)

Opioid antagonist; μ Opioid receptor; κ Opioid receptor; δ Opioid receptor; Isoproterenol; Water intake (Glass, M.J. (657) 310)

Drinking behavior
Angiotensin II; c-*fos*; Vasopressin; Oxytocin; Immediate early gene; Water ingestion; Gene suppression; Paraventricular nucleus; Supraoptic nucleus (Xu, Z. (659) 157)

Drug abuse
Mesolimbic; Norepinephrine; Reinforcement; Mesencephalon (Van Bockstaele, E.J. (647) 307)

Individual difference; Conditioning; Amphetamine-induced hyperlocomotion; Sensitization; Amphetamine; Locomotion (Jodogne, C. (657) 236)

Corticosterone; Cocaine; Metyrapone; Psychomotor effect; Self-administration (Piazza, P.V. (658) 259)

Drug addiction
Nucleus accumbens; Striatum; Drug dependence (Crippens, D. (650) 56)

Drug dependence
Nucleus accumbens; Striatum; Drug addiction (Crippens, D. (650) 56)

Drug discrimination
Clozapine; Dopamine; *cis*-Flupentixol; Haloperidol; Nicotine (Brioni, J.D. (643) 1)

Epibatidine; Nicotine; Antinociception; Locomotor activity; Hypothermia (Damaj, M.I. (664) 34)

Drug interaction
Opiate; Benzodiazepine; Antinociception; Met-enkephalin; Sedation; Serum morphine level (Sribanditmongkol, P. (645) 1)

Drug–lesion interaction
Amphetamine; Medial septum; Radial maze; Learning; Memory; Sensitization (Ennaceur, A. (636) 277)

Drug resistance
Kindling; Epilepsy; Estrous cycle; Estrogen; Progesterone; GABA; Antiepileptic drug (Ebert, U. (638) 45)

Drug seeking behavior
Dopamine transporter; Quantitative autoradiography; WIN 35428; GBR 12935 (Wilson, J.M. (668) 39)

Drug self-administration
Ibogaine; Harmaline; Tabernanthine; Coronaridine; Ibogamine; Desethylcoronaridine; Morphine; Cocaine (Glick, S.D. (657) 14)

1,3-Di-(2-tolyl)guanidine (DTG)
σ Opioid site; Carbon monoxide; Hypoxia; NMDA; Amnesia model (Maurice, T. (647) 57)

Dual-peroxidase staining
Triple immunofluorescence labeling; Glia; Extracellular matrix; *Wisteria floribunda* agglutinin; Chondroitin sulfate proteoglycan; Cortex; Rat (Härtig, W. (635) 307)

Dual probe
Acetylcholine; Microdialysis; Hippocampus; Basal forebrain; Glutamate; Receptor; Kainate; NMDA; Medial septum; Diagonal band; Septal stimulation (Moor, E. (648) 32)

Duck
Glucagon receptor; Energy balance; Central motor system; Limbic system (Montaron, A. (663) 121)

Dutch-type amyloidosis
Alzheimer's disease; Amyloid β-protein (Dudek, S.M. (651) 129)

Dye-coupling
Sensory afferent; Electrical synapse; Antidromic spike; Crayfish (Marchand, A.R. (667) 98)

Dynorphin
Cholecystoskinin; Neuropeptide FF; μ Opioid receptor; δ Opioid receptor; Spinal cord; Pain facilitation; Conditioned analgesia; Conditioned anti-analgesia (Wiertelak, E.P. (634) 214)

Hippocampal formation; Blood pressure; Spontaneously hypertensive rat; Wistar–Kyoto rat; Colchicine; Hypertension (Privette, T.H. (656) 295)

Food restriction; Reward (Berman, Y. (664) 49)

Salt-loading; Rehydration; Vasopressin; Galanin; Immunocytochemistry (Yagita, K. (667) 13)

Dynorphin B
Rat brain; Lateral hypothalamus; Prolactin-like containing neuron; Bradykinin; Immunocytochemistry; Electron microscopy (Griffond, B. (635) 179)

Dyskinesia
Globus pallidus; Pallidotomy; Parkinsonism; MPTP (Blanchet, P.J. (650) 32)

Dystonia
Serotonin; Dopamine; Noradrenaline; Basal ganglia; Brainstem (Löscher, W. (658) 199)

Dystrophic neurite
Tau; Paired helical filament; Argentophilia; Immunocytochemistry; Neuropathology; Alzheimer's disease (Su, J.H. (637) 37)

E

Ectopic Purkinje cell
Inositol 1,4,5-trisphosphate receptor; Immunocytochemistry; Vestibular complex; Dorsal cochlear nucleus (Rodrigo, J. (634) 191)

Ectostriatum
Zebra finch; Visually evoked potential; Visual wulst; Optic tectum; Ipsi- and contralateral stimulus responses; Cooling; Spreading depression (Engelage, J. (652) 17)

Edema
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Edematous change
Catalase; D-Amino acid oxidase; Hydrogen peroxide; Spongiform encephalopathy; Zitter rat (Gomi, H. (653) 66)

Edge
Dopamine; Striatum; Open field; Thigmotaxis; Neglect; 6-Hydroxydopamine lesion; Rotational behavior; Asymmetry (Sullivan, R.M. (637) 114)

Edinger–Westphal nucleus
Calcium; Calcium channel; Ciliary ganglion; ω-Conotoxin; Calyciform terminal (Lucaj, Z. (660) 1)

EEDQ
Sensitization; Cocaine; Dopamine; Dopamine D_1 receptor; Dopamine D_2 receptor; Nimodipine (Burger, L.Y. (639) 228)

EEG
Glutamate; GABA; Hippocampal slice; Neural network; Oscillator; Seizure; Field potential; Model (Schneiderman, J.H. (633) 105)

Hippocampus; Histamine; α-Fluoromethylhistidine; Neocortex; Theta rhythm (Servos, P. (636) 98)

Sleep; Neurophysiology; Beta; Sigma; Delta; Fast Fourier transform; Computer analysis (Uchida, S. (659) 243)

Preoptic/anterior hypothalamus; NREM sleep; Slow-wave sleep; Delta activity; Thermoregulation; Warming (McGinty, D. (667) 273)

Efferent
Auditory selective attention; Cochlea; Otoacoustic emission (Giard, M.-H. (633) 353)

Vestibular; Synapse; Hair cell; Acetylcholine; Nicotinic; Labyrinth; Frog (Cochran, S.L. (642) 344)

Egg-laying behavior
Neuropeptide; Protein trafficking; Proteolytic processing; Exocrine gland (Paganetti, P. (633) 53)

EGTA
Thyrotropin-releasing hormone; Neuromodulation; Resting K^+ conductance; Phorbol ester; Protein kinase C; IP_3; BAPTA; Intracellular calcium; Forskolin; Adenylate cyclase (Bayliss, D.A. (668) 220)

Eicosanoid
Phospholipase A_2; Astrocyte; Cortex; Astrocytoma; Inflammation (Stephenson, D.T. (637) 97)

Eicosanoid production
Forebrain ischemia; Hypothermia; Glutamate release (Patel, P.M. (650) 205)

Eight arm radial maze
Hippocampus; Intra- and infrapyramidal mossy fiber; Spatial learning; C57BL/6J mice; Inbred strain (Jamot, L. (644) 352)

Ejaculation
Medial preoptic area; Sexual function (Marson, L. (638) 103)

Nociception; Pain; Analgesia; Copulation; Female sexual behavior; Pelvic nerve; Pudendal nerve; Hypogastric nerve; Mount; Intromission (Gómora, P. (656) 52)

Electrical coupling
Retina; Horizontal cell; Dark adaptation; Rod; Cone; Light adaptation (Mangel, S.C. (659) 55)

Electrical stimulation
Noradrenaline; Fast cyclic voltammetry; Locus coeruleus; Brain slice (Palij, P. (634) 275)

Acetylcholine; Dialysis; Prefrontal cortex; Striatum (Taber, M.T. (639) 354)

Circadian rhythm; Glutamate; MK-801; Retinohypothalamic tract; Suprachiasmatic nucleus (De Vries, M.J. (642) 206)

Dorsal raphe nucleus; Brown adipose tissue; Thermogenesis (Dib, B. (650) 149)

γ-Hydroxybutyrate; Lesion; DOPAC; Dopamine (Eaton, M.J. (659) 201)

Chemically patterned substrate; Self-assembled monolayer; Neuritic process orientation; Neuroblastoma cell; Cell culture (Matsuzawa, M. (667) 47)

Electrical synapse
Chemical synapse; Conditional bursting; Cell culture; Synapse formation; Circuit (Magoski, N.S. (645) 201)

Sensory afferent; Dye-coupling; Antidromic spike; Crayfish (Marchand, A.R. (667) 98)

Electric fish
Aspartate; Electrosensory lateral line lobe; Glutamate; Immunogold; Immunocytochemistry (Wang, D. (653) 215)

Electroacupuncture
Neuropeptide; Neuropeptide Y; Rat brain; Hippocampus; Microwave irradiation (Bucinskaite, V. (666) 128)

Electrochemistry
Behavioral sensitization; Dopamine neuron; Dopamine release; Conditioning (Kiyatkin, E.A. (642) 228)

Somatodendritic dopamine release; Mesocorticolimbic system; Ventral tegmental area (Zhang, H. (656) 59)

Electroconvulsive shock
3-Methoxytyramine; Dopamine release; Cerebellum; Hippocampus; Haloperidol; Mass fragmentography (Chrapusta, S.J. (655) 271)

Microdialysis; Striatum; Uric acid (Nomikos, G.G. (660) 50)

Electrode recording property
Multielectrode array; Visual cortex; Intracortical recording; Neuroprosthetics; Neurophysiology (Nordhausen, C.T. (637) 27)

Electroencephalogram
Cerebral blood flow; Propagation; Limbic system; Kainate; Hippocampus; Seizure (Goto, Y. (634) 203)

Cytokine; Antibody; Sleep deprivation (Opp, M.R. (639) 57)

Sleep; Spectral analysis; Neurosteroid; Benzodiazepine; Rat (Lancel, M. (646) 85)

Hippocampus; Rhythmical slow activity; Theta; Neural oscillation; Coherence; Phase; Commissural connection (Kocsis, B. (660) 341)

Electroencephalography
Excitatory amino acid; Glutamate; Aspartate; Rat; Secondary ischemia; Seizure activity; Traumatic brain injury (Nilsson, P. (637) 227)

Spreading depression; Migraine; Glutamate (McLachlan, R.S. (666) 133)

Electrogenic
Cl^- pump; Cl^- transport; Phosphatidylinositol-4-monophosphate; Cl^--ATPase; Reconstitution (Zeng, X.-T. (641) 167)

Electrolyte balance
Water intake; Fluid balance; AV3V region; Adrenergic receptor (Bastos, R. (636) 81)

Electrolytic lesion
Spontaneously hypertensive rat; Wistar–Kyoto rat; Substantia nigra; Caudate nucleus; Blood pressure; Dopamine; In vitro superfusion (Linthorst, A.C.E. (639) 261)

Electromyogram
Circadian rhythm; H-reflex; Soleus; Rat (Chen, X.Y. (648) 167)

Electromyography
Sensorimotor reaction; Orbicularis oris; Active force dynamics; Mechanical stimulation; Skin contactor; Adult (Andreatta, R.D. (646) 175)

Motor control; Biarticular muscle; Recruitment; Waveform; Coordination of motor pools (De Leon, R. (654) 241)

Electron microscope
Nucleus of solitary tract; Parabrachial nucleus; Central nucleus of the amygdala; *Phaseolus vulgaris* leucoagglutinin; Degeneration; Rat (Jia, H.-G. (663) 181)

Electron microscopy
Rat brain; Lateral hypothalamus; Prolactin-like containing neuron; Bradykinin; Dynorphin B; Immunocytochemistry (Griffond, B. (635) 179)

Cerebellum; Microtubule; Neurofilament protein; Intracellular transport; Neuronal discharge; Electrophysiology (Seil, F.J. (636) 87)

Estrogen receptor; Hypothalamus; Ovulation; Luteinizing hormone (Langub Jr., M.C. (641) 303)

Rat; Ventral root; C-fiber; Capsaicin; Immunohistochemistry; Plasma protein extravasation (Karlsson, M. (642) 244)

Immunohistochemistry; Substantia nigra; Tyrosine hydroxylase; Basal ganglia; Ultrastructure; Double labeling (Karle, E.J. (646) 149)

Golgi apparatus; Brefeldin A; Glial fibrillary acidic protein; Astrocyte type I; Astrocyte type II; MG-160; Immunohistochemistry; A2B5; HNK-1; Cell process (Lavi, E. (647) 273)

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Perforated synapse; Extrapyramidal side effect; Glutamate immunocytochemistry; Glutamate antagonist (Meshul, C.K. (648) 181)

Arcuate nucleus; Dopamine; Double-labeling; Galanin; Hypothalamus; Immunocytochemistry; Interaction; TIDA; Tyrosine hydroxylase (Hrabovszky, E. (652) 49)

Interposed nuclei; Mesodiencephalic junction; Inferior olive; GABA; Gold-lectin tracer (De Zeeuw, C.I. (653) 345)

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Immunocytochemistry; Monkey; Protein kinase C; Hippocampus; Subspecies; Presynapse (Saito, N. (656) 245)

Scrapie; Immunogold; Prion protein (Jeffrey, M. (656) 329)

Rat globus pallidus; Parvalbumin; Glutamate decarboxylase; Immunohistochemistry; Light microscopy; Morphological analysis (Kita, H. (657) 31)

Ganglioside; Purkinje cell; Cerebellum; Mutant mouse; Glycolipid; Monoclonal antibody (Yamamoto, M. (662) 223)

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Astrocyte; Chondroitin sulfate; Corpus callosum; Immunohistochemistry; Node of Ranvier; Rat; Spinal cord (Bjartmar, C. (667) 111)

Electron paramagnetic resonance
Brain ischemia; Cerebral blood flow; Diethyldithiocarbamate; Nitric oxide; Reperfusion (Sato, S. (647) 91)

Electrophysiological recording
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Electrophysiology
Basal ganglia; Dopamine; Glutamate; Excitatory postsynaptic potential; Accumbens; Intracellular recording (O'Donnell, P. (634) 105)

Striate cortex; Rat; Current source density; Slice (Kenan-Vaknin, G. (635) 37)

Cerebellum; Microtubule; Neurofilament protein; Intracellular transport; Neuronal discharge; Electron microscopy (Seil, F.J. (636) 87)

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Learning; Imprinting; Domestic chick; Spike frequency (Bradford, C.M. (640) 11)

Serotonin; Ipsilateral abducens nucleus; Lateral vestibular nucleus; Polysynaptic neuron (Kishimoto, T. (644) 47)

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Thalamus; Quantitative evaluation; Dendrite; Somatosensory system (Ohara, P.T. (648) 259)

Neurotoxicity; Calcium; Chronic depolarization; NMDA; Kainate (Tymianski, M. (648) 291)

Nigrothalamic projection; Substantia nigra; Mediodorsal nucleus; Prefrontal cortex; Cat (Miyamoto, Y. (649) 313)

Thalamus; Dendrite; Intracellular filling; Somatosensory system (Havton, L.A. (651) 76)

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Single unit; Somatosensory cortex; Deafferentation; Cortical reorganization; Nerve transection; Chronic recording (Salimi, I. (656) 263)

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Volume transmission; Dopamine; 6-Hydroxydopamine; Microdialysis; Immunohistochemistry (Bjelke, B. (662) 11)

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Excitatory amino acid; NMDA; Phencyclidine; Microdialysis (Wang, T. (666) 255)

Electrosensory lateral line lobe
Aspartate; Electric fish; Glutamate; Immunogold; Immunocytochemistry (Wang, D. (653) 215)

Electroshock
Protein kinase C isoform; Endogenous substrate (Chen, C.-C. (648) 65)

Electrotonic coupling
Brain slice; Hypothalamus; Intracellular injection; Lucifer yellow; Neurobiotin (Hatton, G.I. (650) 63)

Electrotonic modelling
CA1 pyramidal cell; Kainate lesion; Intracellular recording and labeling; Neuronal structure; Neuronal reconstruction; Morphometry (Pyapali, G.K. (652) 279)

Elevated plus-maze
Autonomic nervous system; Anxiety; Acoustic startle response; Locomotor activity; Social interaction; Stress (Inglefield, J.R. (633) 151)

Eliprodil
[^{14}C]2-Deoxyglucose; Autoradiography; NMDA receptor; Polyamine site (Cudennec, A. (664) 41)

ELISA
Alzheimer's disease; Biomarker; Ubiquitin; Cerebrospinal fluid; Enzyme-linked immunosorbent assay; Competitive enzyme-linked immunoflow assay; CELIFA (Kudo, T. (639) 1)

Glutathione; Glutaraldehyde; Antibody; Immunohistochemistry; Rat brain (Amara, A. (659) 237)

Ellipticine
Choroid plexus; Endothelium; Food mutagen; P450; β-Naphthoflavone (Brittebo, E.B. (659) 91)

Embryo
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Embryonic brain
3,5,3′-L-Triiodothyronine; Septum pellucidum; Neuron survival; Axon elongation; Primary culture (Filipčik, P. (647) 148)

Embryonic ventral mesencephalon
Immediate early gene; c-*fos*; Prefrontal cortex; Dopamine agonist; Intracerebral neural grafting; Transplantation (Cenci, M.A. (665) 167)

Emesis
Serotonin receptor; Nucleus tractus solitarii; Area postrema; Human brainstem (Ohuoha, D.C. (637) 222)

Emetic drug
Taste aversion conditioning; Nucleus of the solitary tract; Pontine parabrachial nucleus; c-Fos; Learning (Swank, M.W. (636) 202)

Emotion
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EMSA
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AMPA; Zn^{2+}; Neurotoxicity; Neuroprotection; Nimodipine; Dihydropyridine; L-type Ca^{2+} channel (Freund, W.-D. (654) 257)

Endocrinology
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Endogenous benzodiazepine
Stress control; Coping; Picrotoxinin; Strychnine; Seizure; Chloride channel; TBPS; Receptor binding; GABA shift; Anticonvulsant (Drugan, R.C. (661) 127)

Endogenous inhibitor
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Endogenous opioid
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Endogenous substrate
Electroshock; Protein kinase C isoform (Chen, C.-C. (648) 65)

Ca^{2+}/calmodulin-dependent protein kinase II; cAMP-dependent protein kinase; Protein phosphorylation; Brain development; Two-dimensional gel electrophoresis (Sugiura, H. (659) 42)

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Endorphin
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β-Endorphin
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Proopiomelanocortin; γ_3-Melanocyte-stimulating hormone; Opioid antagonism; Naltrexone; Hypothalamus (Jaffe, S.B. (648) 24)

Cell culture; Hypothalamus; Neuron; Adenylyl cyclase; Glucocorticoid (Yang, Z. (648) 99)

Estradiol; 21-Aminosteroid; Free radical; Hypothalamus (Schipper, H.M. (652) 161)

Cholecystokinin octapeptide; CCK-8; DNA synthesis; Growth; Development (Bartolome, J.V. (661) 19)

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Endorphin receptor
DAMGO; Endorphin; In situ hybridization; μ Opioid receptor; Receptor autoradiography (Mansour, A. (643) 245)

Endosomal / lysosomal pathway
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Endothelial cell
Global cerebral ischemia; Cardiac arrest; Clinical death; Blood–brain barrier; Horseradish peroxidase (Pluta, R. (633) 41)

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γ-Glutamyl transpeptidase; Extracellular matrix; Conditioned medium; C_6 rat glioma cell (Mizuguchi, H. (651) 155)

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Endothelial nitric oxide synthase
NADPH-diaphorase; Immunoelectron microscopy; Endothelial cell (Tomimoto, H. (667) 107)

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Phospholipase A_2; Blood–brain barrier (Vigne, P. (651) 342)

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Endothelin-1
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Endothelin ET_A receptor
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Endothelin$_A$ receptor
Cerebral microvessel; Endothelin; Endothelin-1 (Sagher, O. (658) 179)

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Glioma; Differentiation; Microvessel; Blood–brain barrier (Arosarena, O. (640) 98)

Ageing; Microvasculature; Substance P; Sciatic nerve; Smooth muscle (Khalil, Z. (641) 265)

Choroid plexus; Food mutagen; P450; β-Naphthoflavone; Ellipticine (Brittebo, E.B. (659) 91)

Endothelium-derived hyperpolarizing factor
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Endotoxic shock
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Endotoxin
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Energy balance
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Energy metabolism
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MPTP; MPP^+; Glutamate; Aspartate; ATP; 2-Deoxyglucose; Parkinsonism (Chan, P. (647) 249)

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Energy metabolite
ATP; Cyclic guanosine 3′5′-monophosphate; Intracellular pH; Lactate; Phosphocreatine; Rat brain; Spreading depression (Gault, L.M. (641) 176)

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Tyrosine hydroxylase; Olfactory bulb; Dopamine; Neuronal culture; Naloxone; Nimodipine (McMillian, M.K. (658) 105)

Periaqueductal gray; GABA; Immunocytochemistry; Ultrastructure; Synapse (Wang, Q.-P. (665) 39)

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Kindling; Transfer kindling; Epilepsy; Perforant path; Dentate gyrus; Neural plasticity (Spiller, A.E. (635) 139)

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Circadian rhythm; Serotonin; Suprachiasmatic nucleus; High performance liquid chromatography; Rat (Cagampang, F.R.A. (639) 175)

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Circadian rhythm; Suprachiasmatic nucleus; Intergeniculate leaflet; Retinal ganglion cell (Moore, R.Y. (659) 249)

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Kindling; Transfer kindling; Entorhinal cortex; Perforant path; Dentate gyrus; Neural plasticity (Spiller, A.E. (635) 139)

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NBQX; AMPA receptor; Kindling; Amygdala; Hippocampus; Antiepileptogenic effect; Anticonvulsant effect (Namba, T. (638) 36)

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Area tempestas; GABA; Glutamate; Limbic seizure; Entorhinal cortex; Perirhinal cortex; Piriform cortex (Halonen, T. (652) 145)

Kainate; Neurotoxicity; Kindling; Glutamate; Convulsion (Baran, H. (652) 195)

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Epilepsy; Oocyte; Potassium channel; Pentylenetetrazol (Madeja, M. (656) 287)

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NMDA; Kainate; Excitatory amino acid; Stress; Glucose production; Glucose utilization; Catecholamine; Glucagon; Insulin; Corticosterone; Rat (Molina, P.E. (634) 41)

Bombesin; Nucleus tractus solitari; Memory; Avoidance learning; Radial arm maze (Williams, C.L. (654) 251)

Rostral ventrolateral reticular nucleus; Arterial blood pressure (Ruggiero, D.A. (663) 107)

Epinephrine neuron
Alzheimer's disease; Lysosomal enzyme; Tonic vasomotor center (Burke, W.J. (661) 35)

Epithelial permeability
Junctional epithelium; Di-I; Retrograde axonal transport; Trigeminal nerve fiber (Sugaya, A. (653) 330)

Epithelium
Nitric oxide synthase; Nasal mucosa; Blood vessel; Seromucous gland; Immunohistochemistry; Rat (Hanazawa, T. (657) 7)

EPSP
Long-term potentiation; Protein kinase C; Calcium; Hippocampus; CA1; Rat (Cheng, G. (646) 230)

Intracellular recording; Rostral ventrolateral medulla; PNMT-containing neuron; Antidromic activation; Intracellular labeling (Granata, A.R. (648) 299)

Caudate nucleus; Intrinsic circuitry; IPSP; Cat (Wilson, J.S. (654) 41)

Erythroid spectrin
Brain spectrin; Cerebellum; Non-erythroid spectrin; Polarization; Neuronal cytoskeleton; Spectrin isoform (Clark, M.B. (663) 223)

Erythrosin B
Na^{+},K^{+}-ATPase inhibitor; Ouabain; Melittin; Zinc; Neuronal cytotoxicity; Acetylcholinesterase (Lees, G.J. (649) 225)

Essential trace metal
Brain; Hippocampus; Choroid plexus; Blood–brain barrier; Zinc; Manganese (Takeda, A. (640) 341)

Cerebrospinal fluid; Choroid plexus; Blood–brain barrier; Zinc; Manganese (Takeda, A. (658) 252)

Estradiol
Dopamine receptor; Sex difference; Striatum; Quantitative autoradiography; Progesterone (Bazzett, T.J. (637) 163)

Development; Frontal cortex; Testosterone; Aromatase inhibitor; Dopamine; Noradrenaline; Perinatal life (Stewart, J. (646) 157)

β-Endorphin; 21-Aminosteroid; Free radical; Hypothalamus (Schipper, H.M. (652) 161)

Adrenaline; Dopamine; Hypothalamus; Luteinizing hormone; Luteinizing hormone-releasing hormone; Neuropeptide Y; Noradrenaline; Progesterone; Prolactin; Sexual differentiation (Crowley, W.R. (663) 257)

Estrogen
Lordosis; Hypothalamus; Midbrain central gray (McCarthy, M.M. (636) 209)

Kindling; Epilepsy; Estrous cycle; Progesterone; GABA; Antiepileptic drug; Drug resistance (Ebert, U. (638) 45)

$GABA_B$ receptor; $GABA_A$ receptor; Serotonin 5-HT_{1A} receptor; Neocortex; Hippocampus; Estros cycle; Steroid hormone; Progesterone (Al-Dahan, M.I. (640) 33)

High-affinity choline uptake; Choline acetyltransferase; Learning; Memory; Cytoprotection (Singh, M. (644) 305)

Tyrosine hydroxylase; Medial preoptic area; Medial preoptic nucleus; Rat (Yuri, K. (645) 278)

Intracerebral infusion; Lordosis; Midbrain central gray; Phorbol ester; Protein kinase C; Protein kinase C inhibitor; RU486; Tetradecanoyl phorbol acetate; Hypothalamic ventromedial nucleus (Kow, L.-M. (660) 241)

Baclofen; Bicuculline methiodide; Enkephalin; γ-Aminobutyric acid; $GABA_A$ receptor; $GABA_B$ receptor; Lordosis; THIP; Tonic inhibition; Ventromedial nucleus of hypothalamus (Ogawa, S. (666) 239)

Estrogen receptor
Aromatase enzyme; Musk shrew; Immunocytochemistry; Sexual behavior; Limbic region; Septum; Amygdala (Dellovade, T.L. (634) 141)

Hypothalamus; Ovulation; Luteinizing hormone; Electron microscopy (Langub Jr., M.C. (641) 303)

Steroid hormone; Proto-oncogene; Hypothalamus; c-*fos* (Tetel, M.J. (646) 267)

Estros cycle
$GABA_B$ receptor; $GABA_A$ receptor; Serotonin 5-HT_{1A} receptor; Neocortex; Hippocampus; Steroid hormone; Progesterone; Estrogen (Al-Dahan, M.I. (640) 33)

Estrous cycle
Kindling; Epilepsy; Estrogen; Progesterone; GABA; Antiepileptic drug; Drug resistance (Ebert, U. (638) 45)

Area postrema; Glucoprivation; Lordosis; Metabolic fuel; Nucleus tractus solitarii; 2-Deoxy-D-glucose (Schneider, J.E. (661) 70)

Estrous female odor
Odor preference; Neurosteroid; 3α-Hydroxy-4-pregnen-20-one; GABA; GABA receptor; Male sexual interest; Male sexual motivation; Olfactory response (Kavaliers, M. (646) 140)

Estrus behavior
Amino acid; Monoamine; Mediobasal hypothalamus; Luteinizing hormone; Sheep (Fabre-Nys, C. (649) 282)

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Acute tolerance; NMDA; Extracellular; Hippocampus; Excitatory postsynaptic potential (Grover, C.A. (642) 70)

$GABA_A$ receptor; Benzodiazepine; Cl^- current; Hippocampal neuron; Pentobarbital; Cl-218,872 (Aguayo, L.G. (647) 97)

Vasopressin; Lateral septum; Withdrawal; Immunocytochemistry; Rat (Sousa, N. (648) 53)

Adenosine receptor; Locomotor activity; Calcium channel; Caffeine; Dihydropyridine (Daly, J.W. (650) 153)

Na^+,K^+-ATPase; Isozyme regulation; Synaptosome; (Rat cerebral cortex) (Foley, T.D. (653) 167)

Ethanol neurotoxicity; GM1; Cycloheximide; Neuroprotection; Septohippocampal system; Dorsal root ganglion (Heaton, M.B. (654) 336)

Audiogenic seizure; Reticular formation; Seizure network; Startle; Habituation (Faingold, C.L. (663) 69)

Pentobarbital; γ-Aminobutyric acid; Inhibitory postsynaptic current; Hippocampus; Patch-clamp (Weiner, J.L. (665) 307)

Ethanol neurotoxicity
Ethanol; GM1; Cycloheximide; Neuroprotection; Septohippocampal system; Dorsal root ganglion (Heaton, M.B. (654) 336)

Ethanol withdrawal
Hyperexcitability; Burst response; Ca spike; Hippocampal CA1 neuron; Slice preparation (Shindou, T. (656) 432)

Ethidium bromide
Amyloid protein fragment; Brain neuron; Cytotoxicity; Flow cytometer (Furukawa, K. (662) 259)

Etoposide
Programmed cell death; Neuronal cell death; CNS neuron; Cycloheximide; Actinomycin D (Nakajima, M. (641) 350)

Etorphine antagonism at excitatory opioid receptor
Morphine bimodal agonist action; Dorsal root ganglion neuron; Action potential shortening vs. prolongation; Naloxone-precipitated excitatory effect (Shen, K.-F. (636) 286)

Event-related field
Auditory cortex; Tonotopic; Neuromagnetism; Magnetic source imaging; Interstimulus interval (Cansino, S. (663) 38)

Evoked cerebral potential
Long-latency stretch reflex; Limb stiffness; Servo-mechanism; Late reflex response (Chequer, R.S. (641) 273)

Evoked field
Neuromagnetism; Brain plasticity; Sensory cortex (Rossini, P.M. (642) 169)

Evoked potential
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Intracortical; Multichannel recording; AI; Primary auditory cortex; Cognitive; Auditory (Javitt, D.C. (667) 192)

Excised patch
AMPA receptor; Hippocampus; 1-BCP (Arai, A. (638) 343)

Excitation
Toluene; Hippocampal slice; Neurotransmission; Inhibition (Ikeuchi, Y. (664) 266)

Excitatory amino acid
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Brainstem; Trigeminal premotoneuron; Mastication; Reticular formation (Turman Jr., J.E. (634) 49)

N-Methyl-D-aspartate; Kainate; Glucose production; Glucose utilization; Catecholamine; Glucagon; Corticosterone; Insulin; Rat (Yousef, K.A. (634) 131)

NMDA receptor antagonist; Bicuculline; Presynaptic regulation; Striatal compartment (Krebs, M.-O. (634) 345)

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Cerebral ischemia; Free fatty acid; Phospholipase; Hippocampus (Katayama, Y. (635) 331)

Aspartate; Glutamate; Locus coeruleus; Microdialysis; Naltrexone; Opiate withdrawal (Aghajanian, G.K. (636) 126)

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Electroencephalography; Glutamate; Aspartate; Rat; Secondary ischemia; Seizure activity; Traumatic brain injury (Nilsson, P. (637) 227)

Bioassay; Citrulline; NMDA; Nitric oxide synthase; Spinal cord (Li, P. (637) 287)

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Suprachiasmatic nucleus; NMDA; MK-801; Circadian rhythmicity; Glutamate; Enucleation; Rat; Hamster (Hartgraves, M.D. (640) 113)

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Adenosine; Hippocampus; Synaptic transmission; Ischemia (Kano, T. (641) 149)

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NMDA antagonist; Stroke; Focal cerebral ischemia; Photothrombosis; Glutamate (Yao, H. (642) 117)

Serotonin; Supragenual; Prefrontal cortex; Cingulate; Glutamatergic; Corticocortical; Spiperone (Read, H.L. (643) 17)

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Selective vulnerability; Excitotoxicity; Neuroprotection; Somatostatin; Neuropeptide Y; Brain injury; Epilepsy (Penix, L.R.P. (644) 19)

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Glutamate; Hippocampus; Quisqualate; Sensitization; CA1 pyramidal neuron; AP4; AP6; Excitatory amino acid (Schulte, M.K. (649) 203)

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Median raphe nucleus; Hippocampus; Theta rhythm; NMDA (Kinney, G.G. (654) 96)

AMPA; Glutamate receptor; Spinal cord; Paraplegia (Nakamura, R. (654) 279)

NMDA; Cerebral microcirculation; Sodium nitroprusside; Aprikalim; Glutamate (Faraci, F.M. (654) 349)

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Retina cell; Oxidative stress; GABA release; Potassium depolarization; Glutamate antagonist (Agostinho, P. (655) 213)

Afterdischarge; Hippocampus; Synaptic transmission; Ischemia (Miyazaki, S. (657) 325)

Neurotransmitter; Glutamate; Hippocampus; Dentate gyrus; Glutamate oxidase; Ascorbate oxidase (Hu, Y. (659) 117)

Dopaminergic neuron; AMPA receptor; GABA; $GABA_A$ receptor; κ Opioid receptor (Wagner, E.J. (660) 319)

Glutamate; Carnosine; Aminoacylhistidine dipeptide; Hair cell; Frog semicircular canal; Immunocytochemistry (Panzanelli, P. (662) 293)

Glutamate; Hippocampus; Quisqualate; Sensitization (Price Jr., R.H. (663) 317)

Spinal cord; Substance P; Cholecystokinin; Serotonin; Opiate; Hyperalgesia; CP96345; L 365260; Methysergide; Norbinaltorphimine; Naltrexone (Watkins, L.R. (664) 17)

Caudal hypothalamus; Cobalt chloride; Kynurenic acid; Rat; Respiration (Horn, E.M. (664) 25)

Glutamate; Glutamate antagonist; Leech; Glial cell; Retzius neurone (Dörner, R. (665) 47)

α_2-Receptor; Clonidine; Voltammetry, in vivo; Locus ceruleus; Withdrawal syndrome (Duggan, S. (665) 253)

Intracellular calcium; Fura-2; Brain slice; Stroke (Bickler, P.E. (665) 269)

NMDA; Phencyclidine; Microdialysis; Electrophysiology (Wang, T. (666) 255)

Excitatory amino acid neurotransmitter
Neocortex; NMDA; Thyrotropin-releasing hormone; Intracellular recording; In vitro (Kasparov, S. (656) 229)

Excitatory amino acid receptor
Cerebellar granule neuron; Depolarization; Potassium; Apoptosis; Excitotoxicity (Weller, G.-M.Y.B.N.M. (656) 43)

Excitatory input
Kainic neurotoxicity; Goldfish optic tectum; NMDA receptor; Torus longitudinalis (Migani, P. (637) 313)

Excitatory postsynaptic potential
Hippocampus; CA1; Dehydroepiandrosterone sulfate; Neurosteroid; Postsynaptic potential; Inhibitory postsynaptic potential; Field potential (Meyer, J.H. (633) 253)

Basal ganglia; Dopamine; Glutamate; Accumbens; Electrophysiology; Intracellular recording (O'Donnell, P. (634) 105)

Ethanol; Acute tolerance; NMDA; Extracellular; Hippocampus (Grover, C.A. (642) 70)

Adenosine; Hypoxia; NMDA; Glutamate; Hippocampus; 1,3-Dipropyl-8-cyclopentylxanthine (Canhão, P. (661) 265)

Excitatory transmission
Primary afferent neuron; Tetrodotoxin-resistant; Spinal cord neuron; Sodium channel (Jeftinija, S. (639) 125)

Excitotoxicity
Calcium; Cell culture; Cerebral cortex; Glutamate; Head trauma; Neurotoxicity (Regan, R.F. (633) 236)

Chondroitin sulfate; Proteoglycan; Protective action; Cell death; Glutamate; Cell culture; Cortical neuron (Okamoto, M. (637) 57)

Glutamate; Neurotoxicity; Free radical; Lipid peroxidation; Stroke; Hypoglycemia (Chow, H.S. (639) 102)

Alzheimer's disease; Glutamate; Receptor; AMPA (Armstrong, D.M. (639) 207)

Calcium; Fura-2; Neurotrophin; Tyrosine kinase; TrkB; TrkC (Cheng, B. (640) 56)

Human motor cortex; Brainstem; Spinal cord; Non-NMDA receptor; Kainate binding; Autoradiography; Motor neuron disease (Shaw, P.J. (641) 39)

Selective vulnerability; Excitatory amino acid; Neuroprotection; Somatostatin; Neuropeptide Y; Brain injury; Epilepsy (Penix, L.R.P. (644) 19)

Nitric oxide; Cyanide; Hypoxia; NMDA receptor; Transmitter release (Akira, T. (645) 285)

Malonate; 3-Nitropropionic acid; Magnetic resonance imaging; Huntington's disease; Parkinson's disease (Henshaw, R. (647) 161)

Calbindin D_{28K}; Calretinin; Hippocampal cell culture (Möckel, V. (648) 109)

Granule cell culture; Ion substitution; Calcium; Cell death (Dessi, F. (650) 49)

NMDA; Quinolinic acid; Basal ganglia; Astrocyte (Roberts, R.C. (650) 229)

Nitric oxide; NMDA receptor; Transmitter release; Hippocampal slice (Akira, T. (652) 190)

Granule cell culture; Protein synthesis; 2D-PAGE; GRP 78 (Dessi, F. (654) 27)

Kynurenate; Head injury/pathology; Neuroprotection; NMDA antagonist; Hippocampus (Hicks, R.R. (655) 91)

Motor neuron disease; Spinal cord; Motor cortex; AMPA receptor; Kainate receptor; Non-NMDA receptor; Autoradiography (Shaw, P.J. (655) 186)

Motor neuron disease; Spinal cord; Glutamate transport; D-Aspartate binding; Autoradiography (Shaw, P.J. (655) 195)

NMDA receptor; Kainate receptor (Resink, A. (655) 222)

Cerebellar granule neuron; Depolarization; Potassium; Apoptosis; Excitatory amino acid receptor (Weller, G.-M.Y.B.N.M. (656) 43)

Nitric oxide synthase; Calcium-binding protein; Calbindin; Parvalbumin; Calretinin; AMPA/kainate (Dun, N.J. (666) 289)

Excitotoxin
Ischemia; Nerve growth factor; Basic fibroblast growth factor; NMDA (Yamada, M. (643) 173)

Retrograde degeneration; Substantia nigra pars compacta; Striatum; Cell size; Tyrosine hydroxylase (Lundberg, C. (644) 205)

Neuroprotection; Lipid metabolism; Prostaglandin; Leukotriene; Free radical (Baran, H. (646) 201)

Exocrine gland
Neuropeptide; Protein trafficking; Proteolytic processing; Egg-laying behavior (Paganetti, P. (633) 53)

Exocytosis
Synaptic vesicle; Transmitter release; Morphometry; Vesicle hypothesis; Acetylcholine; *Torpedo* electric organ; Fractal dimension (Fox, G.Q. (660) 113)

Axoplasmic transport; 2D electrophoresis; Protein release; Vagus nerve; Nerve regeneration (Remgård, P. (663) 326)

Experimental epilepsy
Generalized seizure; Cholinergic system; Muscarinic receptor; Muscarinic M_1 receptor; Carbachol; Pirenzepine; Mecamylamine; Intracerebral injection; Zona incerta; Rat (Cruickshank, J.W. (643) 125)

Experimental ischemia
Mongolian gerbil; Rat; Ischemic depolarization; Hippocampal slice; Neuronal death; Anoxia (Stittsworth Jr., J.D. (649) 353)

Expiratory neuron
Respiration; Caudal nucleus retroambigualis; Axon collateral; Spinal cord; Brainstem (Sasaki, S.-I. (648) 229)

Explant culture
Neurotrophic effect; Basal ganglia; Huntington's disease (Ardelt, A.A. (647) 340)

Exploration
Aging; Individual difference; Recognition-memory; Y-maze; Rat (Dellu, F. (653) 51)

External cuneate nucleus
Dextran-tetramethylrhodamine-biotin; Brainstem; Gerbil (Lan, C.-T. (668) 107)

Exteroceptive suppression
Oro-facial reflex; Peripheral modulation; Naloxone; Temporalis (Schoenen, J. (657) 214)

Extracellular
Ethanol; Acute tolerance; NMDA; Hippocampus; Excitatory postsynaptic potential (Grover, C.A. (642) 70)

Extracellular activity
Gustatory cortex; Hamster; Inhibition; Taste cortex; Taste stimulus (London, J.A. (666) 270)

Extracellular ATP
Cytosolic Ca^{2+}; Cultured hypothalamic neuron (Chen, Z.P. (641) 249)

Extracellular cGMP
Guanylyl cyclase; Nitric oxide; Nitric oxide synthase; N^G-Nitro-L-arginine methyl ester; Phosphodiesterase (Laitinen, J.T. (668) 117)

Extracellular electrolyte
Brain; pH regulation; Extracellular pH; Intracellular pH; Hypercapnia; Total tissue electrolyte (Katsura, K.-i. (651) 47)

Extracellular matrix
Triple immunofluorescence labeling; Dual-peroxidase staining; Glia; *Wisteria floribunda* agglutinin; Chondroitin sulfate proteoglycan; Cortex; Rat (Härtig, W. (635) 307)

γ-Glutamyl transpeptidase; Conditioned medium; Endothelial cell; C_6 rat glioma cell (Mizuguchi, H. (651) 155)

cAMP; Gene expression; Schwann cell (Yamamoto, M. (653) 335)

Alzheimer's disease; Astrocyte; Cytoskeleton; Huntington's disease; Immunocytochemistry; Parkinson's disease (DeWitt, D.A. (656) 205)

Extracellular pH
Cerebral blood flow; Hypercapnia; Indomethacin; N^G-Nitro-L-arginine (Wang, Q. (641) 257)

Brain; pH regulation; Intracellular pH; Hypercapnia; Extracellular electrolyte; Total tissue electrolyte (Katsura, K.-i. (651) 47)

Extracellular recording
Respiratory neuron; Medulla oblongata; Nucleus tractus solitarii; Antidromic stimulation; DL-Homocysteic acid; Vagal afferent (De Castro, D. (639) 49)

Globus pallidus; Subthalamic nucleus; NBQX; MK-801; AMPA; Kainate; NMDA (Soltis, R.P. (666) 21)

Extrahypothalmus
Gonadotropin releasing hormone mRNA; Olfactory piriform cortex (Choi, W.S. (648) 148)

Extrapyramidal side effect
Perforated synapse; Electron microscopy; Glutamate immunocytochemistry; Glutamate antagonist (Meshul, C.K. (648) 181)

Extrapyramidal symptom
Dopamine uptake site; GBR-12935; Dementia of the Alzheimer type; Parkinson's disease (Allard, P.O. (637) 262)

Extrastriate cortex
Memory; Inferotemporal cortex; Monkey; Visual memory; Area TE; Learning (Sobotka, S. (646) 95)

Extravasation
Blood–brain barrier; Histamine; Impromidine; 2-Pyridylethylamine; Intravital fluorescence microscopy (Schilling, L. (653) 289)

Eyelid conditioning
Cerebellum; Discrimination; Reversal conditioning; Multiple-unit recording; Rabbit (Gould, T.J. (652) 98)

F

F3/F11 protein
Reeler mutant mouse; Hippocampal slice; Calcium-binding protein; Parvalbumin; Immunohistochemistry (Ishida, A. (662) 60)

Facial motor neuron
NADPH-diaphorase; Compression; Functional recovery; Rat (Ruan, R.-S. (652) 350)

Facial nerve
Myotoxin; Neurotoxin; Retrograde tracing; Orbicularis oculi muscle; DiI (McLoon, L.K. (641) 105)

Facilitated-diffusion glucose transporter
GLUT2; Rat retina; Müller cell; Glucose homeostasis (Watanabe, T. (655) 128)

Facilitation
Stimulation-induced feeding; Ventral tegmental area; Lesion; Contralateral effect; Rat (Trojniar, W. (641) 333)

Factor XII
Immunohistochemistry; Polymerase chain reaction; Protamine; Kaolin (Yasuhara, O. (654) 234)

Fas antigen
Apoptosis; Cerebral ischemia; BALB/C mouse (Matsuyama, T. (657) 342)

Fasciculation
Vomeronasal axon; Lectin; Organotypic culture; Glycoconjugate; Development (Ichikawa, M. (668) 252)

Fast cyclic voltammetrey
Dopamine; Dopamine uptake inhibitor; Brain slice; Dopamine D_2 autoreceptor (Wieczorek, W.J. (657) 42)

Fast cyclic voltammetry
Noradrenaline; Locus coeruleus; Brain slice; Electrical stimulation (Palij, P. (634) 275)

21-Day treatment; Fluoxetine; Dorsal raphe nucleus; Suprachiasmatic nucleus; Serotonin overflow; Serotonin 5-HT_{1A} autoreceptor; Serotonin 5-HT_{1B} autoreceptor (O'Connor, J.J. (640) 328)

Fast Fourier transform
Sleep; Neurophysiology; EEG; Beta; Sigma; Delta; Computer analysis (Uchida, S. (659) 243)

Fastigial nucleus
Blood pressure; Kainate; Awake rat; Anesthesia; Heart rate; Microdialysis (Parry, T.J. (635) 27)

Fast wave
Dentate gyrus; Olfaction; Slow wave; Toluene; Noxious stimulation; Rat; Scopolamine (Heale, V.R. (652) 235)

Fatty acid
Palmitic acid; Arachidonic acid; Brain; β-Oxidation; Phospholipid; Methyl palmoxirate (Freed, L.M. (645) 41)

Olfactory bulbar response; Lipid; Phosphatidylserine; Turtle; Odor reception (Taniguchi, M. (647) 10)

Fear
Anxiety; Amygdala; Septum; Midazolam; Ro 15–1788; Receptor (Pesold, C. (638) 295)

Acoustic startle response; Amygdala; Anxiety; Caudal pontine reticular nucleus; Central gray; Footshock; Periaqueductal gray; Rat; Sensitization (Fendt, M. (661) 163)

Stress; Amygdala; Dopamine; Frontal cortex (Davis, M. (664) 207)

Fecal output
c-*fos*; CRF antagonist; Locus coeruleus; Paraventricular nucleus of the hypothalamus; Stress (Bonaz, B. (641) 21)

Fos; Cold; Paraventricular nucleus of the hypothalamus; Caudal raphe nucleus; Dorsal vagal complex; Gastric lesion (Bonaz, B. (652) 56)

Feeding
Neuropeptide Y; Lateral ventricular; Drinking; Carbohydrate; Pattern of ingestion; Satiety; Sweet taste (Lynch, W.C. (636) 28)

Butorphanol; Opioid; Opioid antagonist; μ Opioid receptor; κ Opioid receptor; δ opioid receptor; Norbinaltorphimine; β-Funaltrexamine; Naltrindole (Levine, A.S. (637) 242)

Opioid; Lateral hypothalamus (Papadouka, V. (639) 42)

Serotonin 5-HT_{1A} receptor; Glucose; Insulin; Hypothalamus; 8-Hydroxy-DPAT (Jhanwar-Uniyal, M. (646) 247)

Neuromodulation; Peptide; Second messenger; Invertebrate; cAMP; Buccal; cAMP-dependent protein kinase; Cotransmitter (Hooper, S.L. (657) 337)

c-*fos*; Neuropeptide Y; Hypothalamus; Paraventricular nucleus (Li, B.-H. (665) 277)

Nucleus accumbens; YM-09151-2; Meal patterning; Reward; Switching (Clifton, P.G. (667) 123)

Gastrin-releasing peptide; Satiety; Hypothalamus; Push–pull perfusion; Central nervous system (Plamondon, H. (668) 54)

Feeding behavior
Fenfluramine; Serotonin; Brain site; Fos; Jun; Immediate early gene (Li, B.-H. (640) 255)

Mesolimbic dopamine system; Voltammetry; Motivation; Reinforcement (Kiyatkin, E.A. (652) 225)

Neuropeptide Y; Obesity; Meal size; Genetic model; Overeating; Satiety (Stricker-Krongrad, A. (660) 162)

Feeding circadian rhythm
Hypothalamic neuronal histamine; Reduction of circadian amplitude; Light–dark cycle; Histamine H_1 receptor; α-Fluoromethylhistidine; Thioperamide (Doi, T. (641) 311)

Feline immunodeficiency virus
Env glycoprotein; Sleep disturbance; AIDS (Prospéro-García, O. (659) 254)

Female
Sensitization; Cocaine; Genetic difference; Sex difference; Castration; Ovariectomy; Rat (Haney, M. (645) 179)

Female rat
Accessory olfactory bulb; Lordosis; Mating behavior; Immunohistochemistry; c-*fos*; Accessory olfactory system; Lesion (Dudley, C.A. (642) 29)

Ovariectomy; Pyramidal cell; Parietal cortex; Dendritic branching; Neonatal exposure to testosterone (Stewart, J. (654) 149)

Female sexual behavior
Serotonin 5-HT_{1A} receptor; Ovariectomized rat; Intact rat; Desensitization (Uphouse, L. (637) 173)

Nociception; Pain; Analgesia; Copulation; Pelvic nerve; Pudendal nerve; Hypogastric nerve; Mount; Intromission; Ejaculation (Gómora, P. (656) 52)

Fenfluramine
Renin; Noradrenergic; 6-Hydroxydopamine; Yohimbine; Lesion (Van de Kar, L.D. (634) 77)

Serotonin; Feeding behavior; Brain site; Fos; Jun; Immediate early gene (Li, B.-H. (640) 255)

Serotonin; Modulation; Human; Frontal cortex; PET (Kapur, S. (646) 292)

Penile erection; Cholinergic; Serotonergic; Dopaminergic; Hippocampus; Medial septum; Fimbria-fornix; Raphe nucleus (Maeda, N. (652) 181)

D-Fenfluramine
Phosphoinositide hydrolysis; *p*-Chloroamphetamine; Serotonin; Carbachol; Rat cortex; Alzheimer's disease (Erfurth, A. (665) 107)

Ferret
Pattern formation; Retinogeniculate pathway; Activity; NMDA receptor (Smetters, D.K. (658) 168)

Ferritin
Microglia; Cerebellum; Subarachnoidal hemorrhage; Iron; *Rinis communis* agglutinin (Ozawa, H. (651) 345)

Axonal transport; Basal ganglia; Iron; Manganese; Neurotoxicity; Transferrin; Parkinson's disease (Sloot, W.N. (657) 124)

Fetal
Development; Muscle spindle; Structure; Function (Rees, S. (642) 185)

Uptake; Dopamine; Serotonin; Transporter; Rat; Monoamine; Development (Hyde, C.E. (646) 118)

Cutaneous; Afferent pathway; Development; Structure; Function (Rees, S. (661) 207)

Fetal alcohol syndrome
Alcohol; Purkinje neuron; Development; Calcium current; Central nervous system; Neuron (Gruol, D.L. (634) 283)

Fetal CNS
Human neurodevelopment; Neural cell differentiation; Signal transduction (Larocca, J.N. (653) 9)

Fetal human brain culture
Astrocyte; Heat shock protein 72; Heat stress; Microglia; Neuron; Oligodendrocyte (Satoh, J.-i. (653) 243)

Fetal mouse brain
2-Mercaptoethanol; Human serum; Cell survival; Neurofilament 210 kDa; Oxidative stress (Katayama, M. (656) 409)

Fetal neuron cell culture
Insulin-like substance; Insulin receptor; Peroxidase–antiperoxidase; In situ hybridization; Northern blot; High performance liquid chromatography; Radioimmunoassay; Western blot (Schechter, R. (636) 9)

Fetus
Autoradiography; Development; Respiration; Receptor; Sheep; Newborn; Adult; Birth (Tai, T.-C. (652) 28)

Auditory receptor; Development; Overproduction; Organotypic culture (Abdouh, A. (660) 181)

Fever
Candida albicans; Thermoregulation; Anterior hypothalamus; Fungus; Preoptic area; Temperature; Microinjection; Pyrogen contamination; Brain; Rat; Intracerebral injection; Hyperthermia (Barwick, V.S. (635) 1)

Cerebral palsy; O2A progenitor; White matter; Lipid peroxidation (Juurlink, B.H.J. (641) 353)

Prostaglandin; Fos; Hypothalamus; Pig (Vellucci, S.V. (646) 165)

Sickness behavior; Lipopolysaccharide; Opiate; Interleukin-1; Infection; Open field; Analgesia; Naltrexone; Rat (Yirmiya, R. (648) 80)

Adrenocorticotropic hormone; Endotoxin; Prostaglandin (Watanabe, T. (652) 201)

FG 7142
Double Y-maze; γ-Aminobutyric acid; Memory; Muscimol; Nucleus basalis magnocellularis; Reference memory; Working memory (Smith, C.G. (666) 61)

FGF-2
Neurotrophic factor; Injury repair; Angiogenesis (Gonzalez, A.M. (665) 285)

Fiber outgrowth
Neural transplantation; Dopamine; Noradrenaline; 6-Hydroxydopamine; Tyrosine hydroxylase (Nikkhah, G. (633) 133)

Fiber volley
Long-term potentiation; Hippocampus; Tetraethylammonium; 4-Aminopyridine; Presynaptic; Action potential; Potassium channel (Lærum, H. (637) 349)

Fibroblast growth factor
Melanotropic hormone; Rat spinal cord; Dissociated cell culture; Neurite extension; Neuronal survival (Peulve, P. (654) 319)

Gliosis; Dopamine; Monoamine oxidase; Aromatic L-amino acid decarboxylase (Wang, J. (663) 199)

Fibronectin
Biodegradable graft; Collagen; Laminin; Peripheral nerve regeneration (Tong, X.-j. (663) 155)

Fibronectin receptor
Glioma cell; Integrin; Vitronectin receptor; Focal contact; Cell spreading; Chemotaxis; Gliosis (Umezawa, K. (659) 23)

Fictive locomotion
Presynaptic inhibition; Antidromic spike; Primary afferent depolarization; Crayfish (Cattaert, D. (666) 109)

Field potential
Glutamate; GABA; Hippocampal slice; Neural network; Oscillator; Seizure; EEG; Model (Schneiderman, J.H. (633) 105)

Hippocampus; CA1; Dehydroepiandrosterone sulfate; Neurosteroid; Postsynaptic potential; Excitatory postsynaptic potential; Inhibitory postsynaptic potential (Meyer, J.H. (633) 253)

Hippocampus; Brain temperature; Behavior; Sleep; Urethane anesthesia (Cain, D.P. (658) 135)

Fimbria-fornix
Septohippocampal system; Supracallosal stria; Retrograde tracing; Fluorescent dye; Topographical projection (Peterson, G.M. (646) 129)

Fenfluramine; Penile erection; Cholinergic; Serotonergic; Dopaminergic; Hippocampus; Medial septum; Raphe nucleus (Maeda, N. (652) 181)

Fimbria-fornix lesion
Spatial memory; Neural transplantation; Long-term potentiation; Epileptiform activity; Hippocampus; Rat (Kleschevnikov, A.M. (656) 221)

Cholinergic neural transplant; Acetylcholinesterase; Medial fimbria lesion; Cingulate lesion; Spatial reference memory; Spatial working memory; Activity (Dalrymple-Alford, J.C. (661) 243)

Fimbria-fornix transection
Acetyl-L-carnitine; Nerve growth factor; Choline acetyltransferase; Aging (Piovesan, P. (633) 77)

Fischer 344 rat
Aging; Retina; Neural degeneration; Photoreceptor; Peripheral degeneration (Di-Loreto Jr., D. (647) 181)

Basal forebrain; Substantia innominata; Cortical blood flow; Cortical PO_2; Cortical PCO_2; Aging; Alzheimer's disease; Cerebral blood-flow regulation; Helium clearance; Physostigmine; Intrinsic cholinergic innervation (Sercombe, R. (662) 155)

Fish
Visual system; Retinopetal projection; Isthmo-optic projection; Amphibian; Reptile (Malz, C.R. (661) 259)

FK506
Calcineurin; Kindling; Rat brain; Hippocampus; Neocortex; Cyclosporin A; Immunosuppressant (Moia, L.J.M.P. (648) 337)

Flavonoid
Brain neuron; 2′,7′-Dichlorofluorescin diacetate; *Ginkgo biloba*; Oxidative metabolism; Reactive oxygen species (Oyama, Y. (635) 125)

Flexibility
Prefrontal cortex; Spatial learning and memory; Morris water maze; Rat (De Bruin, J.P.C. (652) 323)

Flocculus
Neuropeptide Y; Climbing fiber; Inferior olive; Rat; Immunohistochemistry; In situ hybridization (Ueyama, T. (634) 353)

Barrel rotation; Copula pyramis; Inferior olive; Phosphoinositide; cGMP; Epilepsy model (Chew, B.H. (647) 345)

Flow cytometer
Amyloid protein fragment; Brain neuron; Cytotoxicity; Ethidium bromide (Furukawa, K. (662) 259)

Calmodulin; Central nervous system neuron; Oxidative metabolism; Reactive oxygen species; W-7 (Oyama, Y. (664) 220)

Flow cytometry
Dopamine neuron; Substantia nigra; DiI; Tissue culture; Fluorescence-activated cell sorting (Kerr, C.W. (665) 300)

Flow-metabolic coupling
Hemoglobin oxygenation state; Sleep–wake cycle; REM sleep; Cerebral blood flow; Cerebral oxygen metabolic rate (Hoshi, Y. (652) 257)

Flow metabolism coupling
Parasympathetic; Neurogenic vasodilatation; Cat; Cerebrovascular; Headache (Goadsby, P.J. (647) 192)

Fluid balance
Water intake; Electrolyte balance; AV3V region; Adrenergic receptor (Bastos, R. (636) 81)

Fluid percussion
[^{3}H]QNB binding; Homogenate; Hippocampus; Neocortex; Brainstem; Cerebellum; Traumatic brain injury (Lyeth, B.G. (640) 240)

Quinuclidinylbenzilate; Receptor binding; Homogenate; Hippocampus; Brainstem; Neocortex; Traumatic brain injury (Jiang, J.Y. (651) 123)

AFDX384; Acetylcholine; Pirenzipine; Autoradiography; Hippocampus; Traumatic brain injury; Receptor binding (DeAngelis, M.M. (653) 39)

Fluid percussion brain injury
Cerebral circulation; Opioid (Armstead, W.M. (660) 19)

Flumazenil
Benzodiazepine; Acetylcholine release; Hippocampus; Microdialysis (Imperato, A. (647) 167)

Flunarizine
Epilepsy; Verapamil; Picrotoxin; GABA; Calcium channel blocker (Straub, H. (658) 119)

Fluo-3
Dorsal root ganglion; Calcium; Confocal microscopy; Nucleus (Utzschneider, D.A. (635) 231)

Fluorescein isothiocyanate
Coexistence; Immunofluorescence; AMCA; Texas red; GABA; Glycine (Watt, C.B. (634) 310)

Fluorescence
Optical imaging; Calcium channel; Calcium Green-dextran; Lamprey (McClellan, A.D. (663) 61)

Fluorescence-activated cell sorting
Dopamine neuron; Substantia nigra; DiI; Flow cytometry; Tissue culture (Kerr, C.W. (665) 300)

Fluorescent dye
Brain neuron; Reactive oxygen species; Hydrogen peroxide; 2′,7′-Dichlorofluorescin diacetate (Oyama, Y. (635) 113)

Septohippocampal system; Fimbria-fornix; Supracallosal stria; Retrograde tracing; Topographical projection (Peterson, G.M. (646) 129)

Fluoroacetate
Astrocyte; ATP; Azide; Fluorocitrate; Glia; Glutamine; Glutamate uptake (Swanson, R.A. (664) 94)

Fluorocitrate
Suprachiasmatic nucleus; Circadian rhythm; Glia; Octanol; Halothane; Brain slice (Prosser, R.A. (643) 296)

Astrocyte; ATP; Azide; Fluoroacetate; Glia; Glutamine; Glutamate uptake (Swanson, R.A. (664) 94)

Fluoro–Gold
Superior colliculus; Subthalamic nucleus; Orienting behavior; Basal ganglia; *Phaseolus vulgaris*-leucoagglutinin (Tokuno, H. (639) 156)

Fluoro-Gold
Fos; Trigeminal spinal caudal subnucleus; Parabrachial nucleus; Immunocytochemistry; Double labeling; Formalin; Rat (Wang, L.G. (649) 62)

Ventral tegmental area; Substantia nigra; Hippocampal formation; Mesolimbic dopaminergic system; Tyrosine hydroxylase (Gasbarri, A. (668) 71)

α-Fluoromethylhistidine
EEG; Hippocampus; Histamine; Neocortex; Theta rhythm (Servos, P. (636) 98)

Hypothalamic neuronal histamine; Feeding circadian rhythm; Reduction of circadian amplitude; Light–dark cycle; Histamine H_1 receptor; Thioperamide (Doi, T. (641) 311)

Dopamine; Periventricular-hypophysial; Mesolimbic; Stress; α-Melanocyte-stimulating hormone (Fleckenstein, A.E. (653) 267)

Histamine; Stress; Norepinephrine; Paraventricular; Medial preoptic (Fleckenstein, A.E. (653) 273)

(*S*)α-Fluoromethylhistidine
Gerbil; Ischemia; Hippocampus; CA2; Histamine (Sugimoto, K. (666) 279)

Fluoxetine
Deiodinase; Thyroid hormone metabolism; Rat; Brain (Baumgartner, A. (635) 68)

21-Day treatment; Dorsal raphe nucleus; Suprachiasmatic nucleus; Serotonin overflow; Fast cyclic voltammetry; Serotonin 5-HT_{1A} autoreceptor; Serotonin 5-HT_{1B} autoreceptor (O'Connor, J.J. (640) 328)

Serotonin; Norepinephrine; Antidepressant; Prozac (Frankfurt, M. (650) 127)

Flupirtine
N-Methyl-D-aspartate; Kainate; Domoic acid; Homocysteic acid; GABA immunoreactivity; Retina (Osborne, N.N. (667) 291)

Fly
Locust; Neuropeptide; Neurotensin; Insect visual system; Medulla; Retina (Ammermüller, J. (636) 40)

FMRFamide
Insect nervous system; Dorsal unpaired median neurones; Octopamine; Insect heart (Stevenson, P.A. (638) 117)

Neuropeptide; CNS; Sensory afferent; Chemoreception; Immunocytochemistry; Crustacean; Decapod (Schmidt, M. (653) 315)

F-11 neurohybrid cell
Opiate alkaloid binding; μ_3 Opiate receptor; N18TG2 neuroblastoma cell (Cruciani, R.A. (667) 229)

Focal brain ischemia
Immediate early gene; c-fos mRNA; Oxygen-free radicals; Superoxide dismutase; Transgenic mouse (Kamii, H. (662) 240)

Focal cerebral infarction
Neurologic deficit; Lipid peroxidation; Tirilazad mesylate; Neuroprotection; Penumbra (Park, C.K. (645) 157)

Focal cerebral ischemia
Excitatory amino acid; NMDA antagonist; Stroke; Photothrombosis; Glutamate (Yao, H. (642) 117)

Hypothermia; Oxygen free radical; Ascorbate; Glutathione; Postischemic hyperperfusion; Delayed postischemic hypoperfusion (Karibe, H. (649) 12)

Heat shock protein; Northern blot analysis; In situ hybridization; Stress response (Higashi, T. (650) 239)

Neutrophil; Cell adhesion molecules; Edema; Infarction (Matsuo, Y. (656) 344)

Spectrin; Calpain; Proteolysis; Rat (Hong, S.-C. (661) 43)

Focal contact
Glioma cell; Integrin; Vitronectin receptor; Fibronectin receptor; Cell spreading; Chemotaxis; Gliosis (Umezawa, K. (659) 23)

Focal ischemia
Cerebral ischemia; Immunohistochemistry; Striatum; Cortex; Superoxide dismutase; Rat (Liu, X.-H. (644) 257)

Middle cerebral artery occlusion; Hyperthermia; Temperature control; Hypothalamic damage; Rat (Zhao, Q. (649) 253)

NMDA receptor; Corticotropin-releasing factor; Glucocorticoid; Neurotoxicity (Strijbos, P.J.L.M. (656) 405)

Food deprivation
Macronutrient intake; Opioid; Naltrexone; Beta-funaltrexamine; Naloxonazine; Nor-binaltorphamine; DALCE; Naltrindole; 2-Deoxy-D-glucose (Koch, J.E. (657) 191)

Water deprivation; Hypothalamic–pituitary–adrenal axis; Paraventricular nucleus; Corticotropin-releasing hormone; Vasopressin; Receptor (Kiss, A. (663) 84)

Arcuate nucleus; c-Fos; Immunocytochemistry; Neuropeptide Y; Northern blot; *ob/ob* mouse; Paraventricular nucleus (Mistry, A.M. (666) 53)

Food intake
2,5-Anhydro-D-mannitol; c-*fos*; Nucleus tractus solitarii; Lateral parabrachial nucleus; Vagus nerve (Ritter, S. (646) 53)

L-name HCl; L-Arginine; Nitric oxide; Chick (Choi, Y.-H. (654) 163)

Neuropeptide Y; Paraventricular nucleus; Autonomic outflow; Cardiovascular regulation; Insulin; Norepinephrine; Nutrient storage (Van Dijk, G. (660) 96)

Food mutagen
Choroid plexus; Endothelium; P450; β-Naphthoflavone; Ellipticine (Brittebo, E.B. (659) 91)

Food restriction
Opioid; Reward; Weight loss; Self-stimulation (Carr, K.D. (639) 253)

Opioid receptor; Reward (Wolinsky, T.D. (656) 274)

Dynorphin; Reward (Berman, Y. (664) 49)

Footshock
Acoustic startle response; Amygdala; Anxiety; Caudal pontine reticular nucleus; Central gray; Fear; Periaqueductal gray; Rat; Sensitization (Fendt, M. (661) 163)

Glucose utilization; 2-Deoxyglucose; Morphine; Pain; Limbic system; Analgesia (Gescuk, B. (663) 303)

Forebrain ischemia
R-Phenylisopropyladenosine; Amino acid release; Microdialysis; Behavior; Neuronal damage; Rat (Héron, A. (641) 217)

Hypothermia; Glutamate release; Eicosanoid production (Patel, P.M. (650) 205)

Endotoxic shock; Phospholipase A_2; Rat hippocampus (Lauritzen, I. (651) 353)

In situ hybridization; Hippocampus; Glutamate receptor (Heurteaux, C. (659) 67)

Formalin
NMDA; Non-NMDA; Pain; PCP; DNQX; CPP; MK-801 (Goettl, V.M. (642) 334)

Fos; Trigeminal spinal caudal subnucleus; Parabrachial nucleus; Fluoro-Gold; Immunocytochemistry; Double labeling; Rat (Wang, L.G. (649) 62)

Formalin pain
Stimulation-produced analgesia; Morphine microinjection; Periaqueductal gray; Central sensitization; Plasticity (Vaccarino, A.L. (666) 104)

Formycin B
Human; Neuroblastoma; Nucleoside transport; Nitrobenzylthioinosine (Jones, K.W. (660) 104)

Forskolin
Metabotropic glutamate receptor; Purine release; Hippocampal slice; cAMP (Casabona, G. (645) 13)

Nodose ganglion; 5-HT_3 receptor; Patch-clamp; cAMP; Desensitization (Fan, P. (650) 16)

Glutamate; KCl (Sim, L.J. (653) 155)

Corticotropin-releasing factor; Radioimmunoassay; Neuroblastoma; HPLC; BE (2)-M17 (Parkes, J.W.K.D.G. (654) 159)

β-Adrenoceptor; Corticotropin-releasing factor; Cytokine; Dexamethasone; Isoproterenol; Glucocorticoid; Somatostatin (Takao, T. (656) 177)

Brain; Microcirculation; Isoproterenol; Norepinephrine; Vascular reactivity (Mayhan, W.G. (659) 208)

Thyrotropin-releasing hormone; Neuromodulation; Resting K^+ conductance; Phorbol ester; Protein kinase C; IP_3; BAPTA; EGTA; Intracellular calcium; Adenylate cyclase (Bayliss, D.A. (668) 220)

Fos
Habenula; Stress; c-*fos*; Dopamine; Amphetamine; Apomorphine; Amfonelic acid (Wirtshafter, D. (633) 21)

Suprachiasmatic nucleus; Serotonin; 8-Hydroxy-DPAT; Buspirone; NAN-190; Tryptophan; Light; Circadian rhythm; Hamster (Glass, J.D. (638) 235)

Fenfluramine; Serotonin; Feeding behavior; Brain site; Jun; Immediate early gene (Li, B.-H. (640) 255)

Prostaglandin; Fever; Hypothalamus; Pig (Vellucci, S.V. (646) 165)

Zif/268; Vestibular; Otolith; Semicircular canal; Inferior olive; Anesthetic effect (Kaufman, G.D. (646) 345)

Medulla; Nucleus accumbens; Tyrosine hydroxylase; Horseradish peroxidase; Triple labeling method; Stress response; Rat (Jin, G.R. (648) 196)

Trigeminal spinal caudal subnucleus; Parabrachial nucleus; Fluoro-Gold; Immunocytochemistry; Double labeling; Formalin; Rat (Wang, L.G. (649) 62)

Cold; Paraventricular nucleus of the hypothalamus; Caudal raphe nucleus; Dorsal vagal complex; Gastric lesion; Fecal output (Bonaz, B. (652) 56)

Vasopressin; Aging; Supraoptic nucleus; Paraventricular nucleus (Sladek, C.D. (652) 207)

Dehydration; Lamina terminalis; OVLT; Median preoptic area; Supraoptic (McKinley, M.J. (653) 305)

Paternal behavior; Maternal behavior; Microtus, Amygdala (Kirkpatrick, B. (658) 112)

Suprachiasmatic nucleus; Supraoptic nucleus; Circadian rhythm; DNA repair; Apurinic/apymidinic endonuclease (Rivkees, S.A. (666) 137)

c-Fos
Proto-oncogene; Medulla; Vagus nerve; Nucleus tractus solitarii; Inferior olivary complex (Yousfi-Malki, M. (635) 317)

Auditory development; Inferior colliculus; Tonotopic organization; Epilepsy; Audiogenic seizure (Pierson, M. (636) 55)

Taste aversion conditioning; Nucleus of the solitary tract; Pontine parabrachial nucleus; Learning; Emetic drug (Swank, M.W. (636) 202)

Hypoxia; Hippocampus; Cortex; Rat (Taniguchi, T. (640) 119)

Arcuate nucleus; Hypothalamus; Immediate early gene product; Immunocytochemistry; Proto-oncogene (Hoffman, G.E. (654) 207)

Arcuate nucleus; Immunocytochemistry; Food deprivation; Neuropeptide Y; Northern blot; *ob/ob* mouse; Paraventricular nucleus (Mistry, A.M. (666) 53)

Fos immunohistochemistry
Cat; Breathing control; Central chemoreceptor; Medulla oblongata (Teppema, L.J. (635) 353)

Brain injury; NMDA receptor; Lactation; Progesterone; Piriform cortex; Rat (Amir, S. (652) 341)

Fos immunoreactivity
Caudal ventrolateral medulla; Rostral ventrolateral medulla; Baroreceptor reflex (Badoer, E. (657) 258)

Fos-like immunoreactivity
Nucleus of the solitary tract; Immunocytochemistry; Small intestine; Lipid; Carbohydrate (Zittel, T.T. (663) 266)

5-Carboxyamidotryptamine; Sodium appetite; Plasma renin activity; Hypotension (Rowland, N.E. (664) 148)

Fos protein
Methamphetamine; Striatum; *N*-Methyl-D-aspartate receptor; MK-801; Rotational behavior; Sensitization; Immunohistochemistry (Ohno, M. (665) 135)

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Memory and learning; Somatostatin; Cholinergic; Passive avoidance; Nucleus basalis magnocellularis; Cysteamine; Physostigmine (Matsuoka, N. (642) 11)

Fractal dimension
Glia; Differentiation (Smith Jr., T.G. (634) 181)

Synaptic vesicle; Transmitter release; Morphometry; Vesicle hypothesis; Exocytosis; Acetylcholine; *Torpedo* electric organ (Fox, G.Q. (660) 113)

Free fatty acid
Cerebral ischemia; Excitatory amino acid; Phospholipase; Hippocampus (Katayama, Y. (635) 331)

Freely moving rat
Salivation; Taste; Chorda tympani; Licking; Grooming; Conditioned taste aversion (Matsuo, R. (649) 136)

Pain; Ventromedial medulla; Single-unit activity; Polyarthritic rat (Montagne-Clavel, J. (657) 92)

p-Chloroamphetamine; Nucleus accumbens; Brain dialysis; Dopamine; Serotonin; Locomotor activity (Sugita, R. (658) 255)

Free radical
Astrocyte; Catalase; Cytotoxicity; Multiple sclerosis; Oligodendrocyte (Noble, P.G. (633) 83)

α-Tocopherol; Lipofuscin; Aging; Brain; Rat (Monji, A. (634) 62)

Hemoglobin; Neuron; Developmental regulation; Neuronal degeneration (Ohyagi, Y. (635) 323)

Glutamate; Neurotoxicity; Excitotoxicity; Lipid peroxidation; Stroke; Hypoglycemia (Chow, H.S. (639) 102)

Cerebral ischemia; Cerebral edema; Middle cerebral artery occlusion; α-Phenyl-*N*-tert-butyl nitrone (Cao, X. (644) 267)

Aging; Dementia; Human brain; Lipid peroxidation; Oxidative stress (Palmer, A.M. (645) 338)

Excitotoxin; Neuroprotection; Lipid metabolism; Prostaglandin; Leukotriene (Baran, H. (646) 201)

Alkaloid; Alzheimer's disease; Calcium; Fura-2; Neurodegeneration; Neurotrophic factor; Phosphorylation (Goodman, Y. (650) 170)

Estradiol; β-Endorphin; 21-Aminosteroid; Hypothalamus (Schipper, H.M. (652) 161)

Alzheimer's disease; Amyloid peptide; Calcium; Dichlorofluorescin; Indomethacin; Iron-catalyzed oxidation; Lipoxygenase; Neurodegeneration (Goodman, Y. (654) 171)

Transgenic mouse; Superoxide dismutase; Methylenedioxyamphetamine; Methylenedioxymethamphetamine; Lethality (Cadet, J.L. (655) 259)

Parkinson's disease; 6-Hydroxydopamine; Hydroxyl radical; Bromocriptine; L-DOPA; Neuroprotection (Ogawa, N. (657) 207)

Aging; Cerebellum; Norepinephrine (Gould, T.J. (660) 333)

Frequency depression
Acetylcholine; Glutamatergic synapse; Neuromodulation; Nucleus accumbens; Presynaptic; Rhythmicity; Stimulus rate (Pennartz, C.M.A. (645) 231)

Frog
Pretectal area; Torus semicircularis; Tectum; Lesion; Neuropeptide Y (Kozicz, T. (635) 345)

Vestibular; Efferent; Synapse; Hair cell; Acetylcholine; Nicotinic; Labyrinth (Cochran, S.L. (642) 344)

Cl^- current; Dorsal root ganglion neuron; $GABA_A$ receptor; Insecticide; Lindane; Subtype (Tokutomi, N. (643) 66)

Frog optic tectum
In vivo whole-cell recording; Nystatin; Retinal ganglion cell; Retinotectal connection; Synapse (Nakagawa, H. (665) 319)

Frog semicircular canal
Glutamate; Carnosine; Excitatory amino acid; Aminoacylhistidine dipeptide; Hair cell; Immunocytochemistry (Panzanelli, P. (662) 293)

Frontal cortex
Chronic pain; Limbic system; Cold pressor; Analgesia (Backonja, M. (639) 337)

Cortex; Development; Recovery of function; Prefrontal cortex; Parietal cortex; Dendrite (Kolb, B. (645) 85)

Norepinephrine; Microdialysis; Cocaine; Hippocampus; Locus coeruleus (Thomas, D.N. (645) 135)

Primary immunization; Microdialysis (in vivo); Serotonin; Cyclosporin A (Gardier, A.M. (645) 150)

Development; Testosterone; Estradiol; Aromatase inhibitor; Dopamine; Noradrenaline; Perinatal life (Stewart, J. (646) 157)

Fenfluramine; Serotonin; Modulation; Human; PET (Kapur, S. (646) 292)

Cortico-pallidal projection; Anterograde tracing; Biotinylated dextran amine; Globus pallidus; Entopeduncular nucleus; (Rat) (Naito, A. (653) 251)

Temporal cortex; Glutamate; AMPA; Kainate; Calcium binding protein; Parvalbumin; Glial fibrillary acidic protein (DeFelipe, J. (657) 150)

Stress; Amygdala; Dopamine; Fear (Davis, M. (664) 207)

Frontal lesion
Cortex; Neonatal lesion; Recovery of function; Cortical graft; Neural transplantation (Kolb, B. (647) 15)

Frontoparietal cortex
Microdialysis; Noradrenaline overflow; Noradrenaline metabolite; α_2-Autoreceptor; Medial prefrontal cortex; Amygdala; Hippocampus (Van Veldhuizen, M.J.A. (635) 238)

Fructose-1,6-bisphosphate
Endothelial cell; Hypoxia; Ischemia; Glutamate; MK-801 (Gobbel, G.T. (653) 23)

FTX
Ca^{2+}-channel; N-channel; Spermine; ω-Conotoxin; P-channel; Binding; AgaIVA; MVIIC; GVIA (Lundy, P.M. (643) 204)

Fucose
Dentate gyrus; Long-term potentiation; 2′-Fucosyllactose (Krug, M. (643) 130)

2′-Fucosyllactose
Dentate gyrus; Long-term potentiation; Fucose (Krug, M. (643) 130)

***β*-Funaltrexamine**
Butorphanol; Opioid; Feeding; Opioid antagonist; μ Opioid receptor; κ Opioid receptor; δ opioid receptor; Norbinaltorphimine; Naltrindole (Levine, A.S. (637) 242)

Function
Development; Fetal; Muscle spindle; Structure (Rees, S. (642) 185)

Cutaneous; Afferent pathway; Development; Fetal; Structure (Rees, S. (661) 207)

Functional connectivity
Time dependent scatter diagram; Non-stationary point process; Correlation technique (Hamada, Y. (660) 209)

Functional hyperemia
Spreading depression; Nitric oxide; Calcitonin gene-related peptide; Pial arterial resting tone; Cerebral microcirculation (Wahl, M. (637) 204)

Functional recovery
NADPH-diaphorase; Facial motor neuron; Compression; Rat (Ruan, R.-S. (652) 350)

Fungus
Fever; *Candida albicans*; Thermoregulation; Anterior hypothalamus; Preoptic area; Temperature; Microinjection; Pyrogen contamination; Brain; Rat; Intracerebral injection; Hyperthermia (Barwick, V.S. (635) 1)

Funnel web spider
Synaptosome; Rat cortex; Fura-2; Stopped-flow fluorometry (Thomas, M.M. (635) 9)

Funnel-web spider toxin
Calcium channel; Neurohypophysis; Nerve terminal; Calcium channel blocker; ω-Conotoxin GVIA; Tetrandrine (Wang, G. (663) 215)

Fura-2
Synaptosome; Rat cortex; Stopped-flow fluorometry; Funnel web spider (Thomas, M.M. (635) 9)

Circadian pacemaker; Calcium; Oscillator; Opisthobranch mollusk; Cell culture; Manganese (Geusz, M.E. (638) 109)

Calcium; Excitotoxicity; Neurotrophin; Tyrosine kinase; TrkB; TrkC (Cheng, B. (640) 56)

α-Bungarotoxin; Chromaffin cell; Nicotinic acetylcholine receptor (Afar, R. (641) 127)

Glutamate; Intracellular calcium concentration; pH; Cortical neuron (Ou-Yang, Y.B. (646) 65)

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Circadian oscillator; Melatonin; cAMP; Thapsigargin; Secretion (D'Souza, T. (656) 85)

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Mechanical brain injury; Anti-ischemic activity; Hippocampal slice; Intracellular free calcium; Oxygen–glucose deprivation (Honda, T. (666) 263)

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Fura-2 microfluorometry
Cat adrenal chromaffin cell; Cytosolic free calcium; Cytosolic free sodium; SBFI microfluorometry; Cd^{2+}; Co^{2+} (Yamagami, K. (646) 295)

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$G_s\alpha$
Cholera toxin; Pineal; cAMP; *N*-Acetyltransferase (Babila, T. (638) 151)

GABA
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Accumbens; Catalepsy; Dopamine; Haloperidol; Microdialysis; Neostriatum; Tolerance (Osborne, P.G. (634) 20)

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Chondroitin sulfate; Immunohistochemistry; Neuronal marker; Parvalbumin; Calbindin (Yasuhara, O. (635) 269)

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Intermediolateral nucleus; Glutamate; Immunocytochemistry; Spontaneously hypertensive rat; Rostral ventrolateral medulla; Caudal ventrolateral medulla; Cardioacceleration (Miura, M. (638) 139)

GABA receptor; Auditory pathway; Cochlear nucleus; Neurotransmitter (Juiz, J.M. (639) 193)

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Visual cortex; Patch-clamp; Voltage-clamp; Single neuron; Glycine; NMDA (Takahashi, Y. (640) 229)

Baclofen; Double Y-maze; Memory; Muscimol; Nucleus basalis magnocellularis; Phaclofen; Reference memory; Working memory (DeSousa, N.J. (641) 29)

Glycine; Inhibitory neurotransmission; Benzodiazepine receptor; Confocal laser microscopy (Bohlhalter, S. (642) 59)

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Cerebral ischemia; $GABA_A$ receptor; Diazepam; Neuroprotection; Hippocampus (Schwartz, R.D. (647) 153)

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Calcium binding protein; Neuropeptide; Nitric oxide synthase; Colocalization (Kubota, Y. (649) 159)

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Anticonvulsant; γ-vinyl-GABA; Hippocampus; Inhibition; Paired-pulse (Jackson, M.F. (651) 85)

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Immunocytochemistry; Postmortem; Glycine; Glutamate; Taurine; Retina; Glia (Pow, D.V. (653) 199)

Interposed nuclei; Mesodiencephalic junction; Inferior olive; Gold-lectin tracer; Electron microscopy (De Zeeuw, C.I. (653) 345)

Epilepsy; Immunocytochemistry; Glia; Noradrenaline; Serotonin; Choline acetyltransferase; Cerebral cortex (Araneda, S. (655) 135)

Hypoxia-ischemia; Rat; Perinatology; Cerebral cortex; Glutamic acid decarboxylase; Epilepsy; Confocal laser scanning microscopy; Immunofluorescence (Romijn, H.J. (657) 245)

Superior cervical ganglion; GABA receptor; Long-term potentiation (González Burgos, G.R. (658) 1)

Epilepsy; Flunarizine; Verapamil; Picrotoxin; Calcium channel blocker (Straub, H. (658) 119)

Substantia nigra pars reticulata; Brain slice; $GABA_A$ receptor; $GABA_B$ receptor; Tiagabine; CGP 55845A (Rick, C.E. (659) 133)

$GABA_B$ receptor; Baclofen; CGP 35348; Retina; Amacrine cell; Ganglion cell (Tian, N. (660) 267)

Amino acid release; Ammonium chloride; Astrocyte; Glutamate; Hepatic encephalopathy; Taurine (Albrecht, J. (660) 288)

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Muscimol; Baclofen; Sodium current; Calcium current; *Helix pomatia* (Haarmeier, Th. (663) 131)

Periaqueductal gray; Enkephalin; Immunocytochemistry; Ultrastructure; Synapse (Wang, Q.-P. (665) 39)

Ischemia; Repetitive ischemia; Microdialysis; Substantia nigra reticulata; Delayed neuronal damage (Shuaib, A. (666) 99)

Helix; Homosynaptic depression; Identified synapse; Opioid peptide; Naloxone; Synaptic transmission (Gutiérrez, R. (667) 243)

GABA acid
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GABA immunoreactivity
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N-Methyl-D-aspartate; Kainate; Domoic acid; Homocysteic acid; Flupirtine; Retina (Osborne, N.N. (667) 291)

GABA neuron
Ischemia; Substantia nigra reticulata; Glutamic acid decarboxylase mRNA (Saji, M. (643) 234)

GABA receptor
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Anxiety; Anxiolytic; Odor preference; Predator odor; Neurosteroid; 3α-Hydroxy-4-pregnen-20-one; GABA acid (Kavaliers, M. (645) 325)

Odor preference; Estrous female odor; Neurosteroid; 3α-Hydroxy-4-pregnen-20-one; GABA; Male sexual interest; Male sexual motivation; Olfactory response (Kavaliers, M. (646) 140)

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Superior cervical ganglion; GABA; Long-term potentiation (González Burgos, G.R. (658) 1)

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GABA receptor channel
Dieldrin; Cyclodiene insecticide; GABA receptor subunit; Human embryonic kidney cell; Chloride current (Nagata, K. (645) 19)

GABA receptor subunit
GABA receptor channel; Dieldrin; Cyclodiene insecticide; Human embryonic kidney cell; Chloride current (Nagata, K. (645) 19)

GABA release
Striatal compartment; Striosome; Matrix; NMDA receptor; AMPA receptor; Cholinergic receptor; Striatal slice (Galli, T. (649) 243)

Retina cell; Oxidative stress; Potassium depolarization; Excitatory amino acid; Glutamate antagonist (Agostinho, P. (655) 213)

GABA shift
Stress control; Coping; Picrotoxinin; Strychnine; Seizure; Chloride channel; TBPS; Receptor binding; Anticonvulsant; Endogenous benzodiazepine (Drugan, R.C. (661) 127)

GABA transmission
Baclofen; CGP 35348; Vestibulo-oculomotor system; Opto-oculomotor system; Saccade; Pigmented rat (Niklasson, M. (649) 151)

GABA uptake
Audiogenic seizure; GABA; Inferior colliculus; Reticular formation; Seizure network (Faingold, C.L. (640) 40)

GABA uptake carrier
Tiagabine; Autoradiography; Receptor (Suzdak, P.D. (647) 231)

$GABA_A$ receptor
Diazepam; Sexual dimorphism; Accessory olfactory bulb; Vomeronasal system; Neurofunctional teratology (Pérez-Laso, C. (634) 1)

Ethanol; Allosteric modulator; Patch clamp electrophysiology; Dissociated neuron (Frye, G.D. (635) 283)

TBPS binding; $^{36}Cl^-$ uptake; Roman high- and low-avoidance rats; Dopamine D_1 receptor; Stress; Psychogenetic selection (Giorgi, O. (638) 13)

$GABA_B$ receptor; Serotonin 5-HT_{1A} receptor; Neocortex, Hippocampus; Estros cycle; Steroid hormone; Progesterone; Estrogen (Al-Dahan, M.I. (640) 33)

Cl^- current; Dorsal root ganglion neuron; Frog; Insecticide; Lindane; Subtype (Tokutomi, N. (643) 66)

GABA; Luteinizing hormone; Sexual maturation; Androgenization; Ontogenesis (Szwarcfarb, B. (646) 351)

Benzodiazepine; Cl^- current; Hippocampal neuron; Pentobarbital; Ethanol; Cl-218,872 (Aguayo, L.G. (647) 97)

Cerebral ischemia; Diazepam; Neuroprotection; GABA; Hippocampus (Schwartz, R.D. (647) 153)

3-Acetylpyridine; Inferior olive; Ataxia; Cerebellar cortex; $GABA_B$ receptor; Autoradiography (Kannari, K. (656) 413)

Autoradiography; NMDA receptor; Opiate receptor; Cerebral ischemia; Gerbil; Pentobarbital (Kanai, Y. (657) 51)

Substantia nigra pars reticulata; Brain slice; GABA; $GABA_B$ receptor; Tiagabine; CGP 55845A (Rick, C.E. (659) 133)

$GABA_B$ receptor; Tuberoinfundibular dopaminergic neuron; SR 95531; Tonic inhibition; Prolactin (Wagner, E.J. (659) 194)

Dopaminergic neuron; Excitatory amino acid; AMPA receptor; GABA; κ Opioid receptor (Wagner, E.J. (660) 319)

Baclofen; Bicuculline methiodide; Enkephalin; Estrogen; γ-Aminobutyric acid; $GABA_B$ receptor; Lordosis; THIP; Tonic inhibition; Ventromedial nucleus of hypothalamus (Ogawa, S. (666) 239)

Bicuculline; Muscimol; Luteinizing hormone releasing hormone pulse generator; Pulsatile luteinizing hormone release; Ovariectomized rat (Hiruma, H. (641) 191)

$GABA_B$
Invertebrate; *Hermissenda*; GABA; G protein; Pharmacology (Rogers, R.F. (650) 93)

γ-Hydroxybutyric acid; Absence epilepsy; Ontogeny; Animal model (Snead III, O.C. (659) 147)

$GABA_B$ antagonist
Postsynaptic inhibition; Bicuculline; Spike facilitation; Input–output curve; Presynaptic facilitation; Neural processing (Leung, L.S. (650) 75)

$GABA_B$ receptor
$GABA_A$ receptor; Serotonin 5-HT_{1A} receptor; Neocortex; Hippocampus; Estros cycle; Steroid hormone; Progesterone; Estrogen (Al-Dahan, M.I. (640) 33)

3-Acetylpyridine; Inferior olive; Ataxia; Cerebellar cortex; $GABA_A$ receptor; Autoradiography (Kannari, K. (656) 413)

Baclofen; Piriform cortex; Laminar selectivity; Synaptic transmission; Intrinsic fiber (Tang, A.C. (659) 75)

Substantia nigra pars reticulata; Brain slice; GABA; $GABA_A$ receptor; Tiagabine; CGP 55845A (Rick, C.E. (659) 133)

$GABA_A$ receptor; Tuberoinfundibular dopaminergic neuron; SR 95531; Tonic inhibition; Prolactin (Wagner, E.J. (659) 194)

GABA; Baclofen; CGP 35348; Retina; Amacrine cell; Ganglion cell (Tian, N. (660) 267)

Baclofen; Bicuculline methiodide; Enkephalin; Estrogen; γ-Aminobutyric acid; $GABA_A$ receptor; Lordosis; THIP; Tonic inhibition; Ventromedial nucleus of hypothalamus (Ogawa, S. (666) 239)

Gadolinium-diethylene triamine pentacetic acid
Blood–cerebrospinal fluid barrier; Magnetic resonance imaging; Transient cerebral ischemia (Nagahiro, S. (633) 305)

β-Galactosidase
Adenovirus; Gene transfer; Retrograde tracing; Substantia nigra; Dopaminergic cell (Ridoux, V. (648) 171)

Neurotrophin-3; Enzyme immunoassay; Nerve growth factor; Development; Hippocampus (Kaisho, Y. (666) 143)

Galanin
Galanin fragment; Serotonin; Receptor interaction; Receptor subtype; Brain (Hedlund, P.B. (634) 163)

Glucocorticoid; Adrenalectomy; Immunocytochemistry; Calcitonin gene-related peptide; Substance P; Somatostatin; Dorsal root ganglion (Coveñas, R. (640) 352)

Galanin mRNA; Genetic hypertension; Locus coeruleus; Nucleus tractus solitari (Kunkler, P.E. (651) 349)

Arcuate nucleus; Dopamine; Double-labeling; Electron microscopy; Hypothalamus; Immunocytochemistry; Interaction; TIDA; Tyrosine hydroxylase (Hrabovszky, E. (652) 49)

Neuropeptide Y; cAMP; Paraventricular nucleus; Arcuate nucleus; Third ventricle (Akabayashi, A. (660) 323)

Salt-loading; Rehydration; Vasopressin; Dynorphin; Immunocytochemistry (Yagita, K. (667) 13)

Galanin fragment
Galanin; Serotonin; Receptor interaction; Receptor subtype; Brain (Hedlund, P.B. (634) 163)

Galanin mRNA
Galanin; Genetic hypertension; Locus coeruleus; Nucleus tractus solitari (Kunkler, P.E. (651) 349)

Gallamine
Theta rhythm; Hippocampus; Septum; Carbachol; Atropine; Muscarinic M_2 receptor; Septal infusion (Monmaur, P. (656) 199)

Gandolinium chloride
Interleukin-1; Interleukin-1ra; Tumor necrosis factor; Soluble TNF receptor; Endotoxin; Hyperalgesia; Indomethacin; Systemic; Intracerebroventricular; Intrathecal; Kupffer cell (Watkins, L.R. (654) 15)

Ganglion
Sympathectomy; Neuropeptide Y; Substance P; Calcitonin gene-related peptide; Prevertebral (Benarroch, E.E. (644) 322)

Sino-atrial node; Bradycardia; Nucleus ambiguus; Retrograde transport; Substance P; Synapse; Ultrastructure; Vagus nerve (Massari, V.J. (660) 275)

Ganglion cell
Calcium current; Retina; Development; ω-CgTx; Nifedipine (Guenther, E. (633) 223)

Ca^{2+}/calmodulin-dependent protein kinase II; Retina; Amacrine cell; Choline acetyltransferase; Rat (Ochiishi, T. (634) 257)

Ca^{2+}/calmodulin-dependent protein kinase II; Retina; Retrograde-labeling (Terashima, T. (650) 133)

GABA; $GABA_B$ receptor; Baclofen; CGP 35348; Retina; Amacrine cell (Tian, N. (660) 267)

Ganglioside
Purkinje cell; Cerebellum; Mutant mouse; Glycolipid; Electron microscopy; Monoclonal antibody (Yamamoto, M. (662) 223)

Cholinergic neuron; Immunohistochemistry; Rat central nervous system (Irie, F. (665) 161)

GAP-43
Gene expression; Transcription; Stable transfectant; H-DNA (Starr, R.G. (638) 211)

Gene expression; Growth-associated gene; Stathmin; p19; MAP2; α1-Tubulin; Plasticity; Brain; Neuron; In situ hybridization (Himi, T. (655) 177)

Gap junction
Connexin43; Astrocyte; Immunohistochemistry; Ischemia; Brain (Hossain, M.Z. (652) 311)

Dopamine; Horizontal cell; Neuromodulation (McMahon, D.G. (659) 110)

Gastric acid
Neuropeptide Y; Intracerebroventricular; Noradrenaline (Geoghegan, J.G. (635) 118)

Gastric contractility
Paraventricular nucleus; Thyrotropin-releasing hormone; Vagotomy (Morrow, N.S. (644) 243)

Gastric emptying
Corticotropin releasing factor; Central nervous system control of gastrointestinal transit; Locus coeruleus; Colonic transit; Stress (Mönnikes, H. (644) 101)

Gastric lesion
Fos; Cold; Paraventricular nucleus of the hypothalamus; Caudal raphe nucleus; Dorsal vagal complex; Fecal output (Bonaz, B. (652) 56)

Gastric motility
Raphe pallidus; Thyrotropin releasing hormone; Dorsal vagal complex; Glutamate; Rat (Garrick, T. (636) 343)

Gastric movement
Glucose; Medulla oblongata; Rat (Sakaguchi, T. (641) 163)

Gastric relaxation
Area postrema; Control of gastric motility; Circumventricular organ; Vagus nerve; DL-Homocysteic acid (Bongianni, F. (646) 307)

Gastrin releasing peptide
Peptide histidine isoleucine; Light; Phase-response curve; Circadian pacemaker; Entrainment (Peters, R.V. (639) 217)

Gastrin-releasing peptide
Bombesin; Neuromedin B; Dorsal raphe; Suprachiasmatic nucleus; Periventricular; Single cell; Action potential (Pinnock, R.D. (653) 119)

Satiety; Hypothalamus; Feeding; Push–pull perfusion; Central nervous system (Plamondon, H. (668) 54)

GBR-12935
Dopamine uptake site; Extrapyramidal symptom; Dementia of the Alzheimer type; Parkinson's disease (Allard, P.O. (637) 262)

Dopamine uptake; Striatum; Asymmetry; Rotation; Amphetamine (Gordon, I. (646) 207)

GBR 12935
Dopamine transporter; Quantitative autoradiography; WIN 35428; Drug seeking behavior (Wilson, J.M. (668) 39)

Gel-shift
Brain; Hippocampus; Transcription factor; Regulatory protein; c-*fos*; c-*jun*; Seizure; Metrazole; CREB; Sensory cortex; Limbic cortex; Cerebellum; EMSA; Supershift (Łukasiuk, K. (643) 227)

Gender difference
Dopamine; Dihydroxyphenylacetic acid; Prolactin; Tyrosine hydroxylase; Hamster (Krajnak, K. (634) 159)

Gene
Cytokine; Interleukin-10; Malignant glioma; Polymerase chain reaction (Nitta, T. (649) 122)

Gene expression
GAP-43; Transcription; Stable transfectant; H-DNA (Starr, R.G. (638) 211)

Development; Cat; Vision; Activity; Cloning; mRNA; Sequence identity (Prasad, S.S. (639) 73)

Neurotrophic factor; Neuronal plasticity; Hippocampal formation; In situ hybridization (Gwag, B.J. (647) 23)

Interleukin-2 receptor; Brain; Molecular cloning; In situ hybridization (Petitto, J.M. (650) 140)

Extracellular matrix; cAMP; Schwann cell (Yamamoto, M. (653) 335)

Growth-associated gene; GAP-43; Stathmin; p19; MAP2; α1-Tubulin; Plasticity; Brain; Neuron; In situ hybridization (Himi, T. (655) 177)

Oxidative stress; Motoneuron; Amyotrophic lateral sclerosis; Superoxide dismutase (Bergeron, C. (659) 272)

Prolactin; Hypothalamus; Polymerase chain reaction; Sleep; Vasoactive intestinal peptide; Pituitary adenylate cyclase-activating peptide (Bredow, S. (660) 301)

Heat shock protein; Cytoprotection; Bilirubin (Takeda, A. (666) 120)

Generalized seizure
Experimental epilepsy; Cholinergic system; Muscarinic receptor; Muscarinic M_1 receptor; Carbachol; Pirenzepine; Mecamylamine; Intracerebral injection; Zona incerta; Rat (Cruickshank, J.W. (643) 125)

Gene suppression
Angiotensin II; c-*fos*; Vasopressin; Oxytocin; Immediate early gene; Drinking behavior; Water ingestion; Paraventricular nucleus; Supraoptic nucleus (Xu, Z. (659) 157)

Genetically epilepsy-prone rat
Epilepsy; Audiogenic seizure; Inferior colliculus; Synaptic inhibition (Li, Y. (660) 232)

Genetic correlation
Aggression; Inbred mouse; Hippocampus; Mossy fiber (Guillot, P.-V. (660) 167)

Genetic difference
Sensitization; Cocaine; Sex difference; Castration; Ovariectomy; Female; Rat (Haney, M. (645) 179)

Genetic hypertension
Galanin; Galanin mRNA; Locus coeruleus; Nucleus tractus solitari (Kunkler, P.E. (651) 349)

Losartan; Arterial pressure; Sympathetic nervous system; Angiotensin II; L-Glutamate; Vasomotor neuron (Averill, D.B. (665) 245)

Genetic model
Alcohol withdrawal; Seizure; Hippocampus; Calcium current; Whole cell voltage clamp (Perez-Velazquez, J.L. (649) 305)

Neuropeptide Y; Feeding behavior; Obesity; Meal size; Overeating; Satiety (Stricker-Krongrad, A. (660) 162)

Genetics
Learning and memory; Transgenic mouse (Paylor, R. (651) 275)

Morphine; Selective breeding; μ Opioid receptor; Autoradiography (Mogil, J.S. (653) 16)

Gene transfer
Adenovirus; β-Galactosidase; Retrograde tracing; Substantia nigra; Dopaminergic cell (Ridoux, V. (648) 171)

Genotype
Calcitonin gene-related peptide; Spinal nucleus of the bulbocavernosus; Mouse; Castration (Wagner, C.K. (647) 37)

Gentamicin
Outer hair cell; Cochlea; Patch-clamp; PBFI; Guinea pig (Ernst, A. (636) 153)

Aminoglycoside antibiotic; Olivocochlear efferent; Contralateral efferent suppression; Compound action potential (Smith, D.W. (652) 243)

Gerbil
Naftidrofuryl oxalate; Serotonin 5-HT_2 antagonist; Neuronal damage; Cerebral blood flow; Cerebral ischemia (Fujikura, H. (636) 103)

Ischemia; Acetylcholine; Delayed neuronal death; Microdialysis; Hippocampus (Ishimaru, H. (639) 66)

Naftidrofuryl oxalate; Neurotransmitter; Receptor; Second messenger; Serotonin 5-HT_2 antagonist; Hippocampus; Aging (Ban, H. (646) 211)

Cerebral ischemia; Post-ischemic hypothermia; Delayed neuronal death; Open field (Colbourne, F. (654) 265)

Autoradiography; NMDA receptor; $GABA_A$ receptor; Opiate receptor; Cerebral ischemia; Pentobarbital (Kanai, Y. (657) 51)

Cytochrome oxidase; Central auditory system; Quantitative histochemistry (Gonzalez-Lima, F. (660) 34)

Cerebral ischemia; Ischemic tolerance; Astroglia; Microglia; Immunohistochemistry; Neuron–glia interaction; Hippocampus (Kato, H. (664) 69)

Ischemia; Hippocampus; CA2; Histamine; (*S*)α-Fluoromethylhistidine (Sugimoto, K. (666) 279)

Brain ischemia; Nitric oxide; Nitroarginine; Histopathology; Spontaneous activity (Shapira, S. (668) 80)

Dextran-tetramethylrhodamine-biotin; External cuneate nucleus; Brainstem (Lan, C.-T. (668) 107)

Gerbil hippocampus
Transient forebrain ischemia; Development; Heatshock protein 70; Delayed neuronal death; Central nervous system (Soriano, M.A. (653) 191)

Gestation
Endothelin; Hypothalamus; Neurohypophysis; Oxytocin; Pregnancy (Horwitz, M.J. (648) 59)

GFAP
Glial fibrillary acidic protein; 2,5-Hexanedione; Hippocampus; Protein phosphorylation; Rat (Pereira, M.E. (656) 417)

GH_3 cell
BK channel; Ketamine; Ca^{2+} activation; K^+ channel; Charybdotoxin (Denson, D.D. (638) 61)

Ginkgo biloba
Brain neuron; 2′,7′-Dichlorofluorescin diacetate; Flavonoid; Oxidative metabolism; Reactive oxygen species (Oyama, Y. (635) 125)

Ginsenoside Rb1
Malonylginsenoside Rb1; Ginsenoside Rg1; Long-term potentiation; Dentate gyrus; Anesthetized rat (Abe, K. (649) 7)

Ginsenoside Rg1
Ginsenoside Rb1; Malonylginsenoside Rb1; Long-term potentiation; Dentate gyrus; Anesthetized rat (Abe, K. (649) 7)

Glia
Differentiation; Fractal dimension (Smith Jr., T.G. (634) 181)

Terminin; Brain; Aging; Neuron (Schipper, H.M. (635) 224)

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Cocaine; Benzoylecgonine; Neuroblastoma; Glioma; Neuron; Cytotoxicity; Toxicity; Morphology (Lin, Y. (643) 108)

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Glial fibrillary acidic protein
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Triethyltin sulfate; Glial fibrillary acidic protein; Developmental neurotoxicology; Spatial delayed alternation (Freeman Jr., J.H. (634) 85)

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Glial fibrillary acidic acidic protein
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Glial fibrillary acidic protein
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Astrocyte; Calcium; Glutamate; Kainic acid; Limbic seizure; Neurodegeneration; Neurotoxicity (Gramsbergen, J.-B.P. (667) 216)

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Glioma cell
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Glioma cell; Integrin; Vitronectin receptor; Fibronectin receptor; Focal contact; Cell spreading; Chemotaxis (Umezawa, K. (659) 23)

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Glomus cell
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c-*fos*; Vagus nerve; Glucoprivation; Lipoprivation; 2-Deoxy-D-glucose; 2-Mercaptoacetate; Rat brain (Ritter, S. (641) 111)

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Senescence accelerated mouse (SAM); SAMP8; SAMR2; Glucose transporter; Cytochalasin B (Sato, E. (637) 133)

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Glucose retention
Glucose concentation; Carotid body; Glomus; Blood glucose; Rat (Alvarez-Buylla, R. (654) 167)

Glucose sensor
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Glucose transporter
Senescence accelerated mouse (SAM); SAMP8; SAMR2; Glucose metabolism; Cytochalasin B (Sato, E. (637) 133)

Glucose sensor; GLUT 2; Reverse transcription-polymerase chain reaction; Immunocytochemistry; Hypothalamus; Caudal hindbrain; Glucostatic theory (Leloup, C. (638) 221)

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N-Methyl-D-aspartate; Kainate; Excitatory amino acid; Glucose production; Catecholamine; Glucagon; Corticosterone; Insulin; Rat (Yousef, K.A. (634) 131)

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Glucostatic theory
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GLUT 2
Glucose sensor; Glucose transporter; Reverse transcription-polymerase chain reaction; Immunocytochemistry; Hypothalamus; Caudal hindbrain; Glucostatic theory (Leloup, C. (638) 221)

GLUT2
Facilitated-diffusion glucose transporter; Rat retina; Müller cell; Glucose homeostasis (Watanabe, T. (655) 128)

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Alamar blue; Brain-derived neurotrophic factor; Calcium; Glucose deprivation; Nerve growth factor (Cheng, B. (650) 331)

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Hippocampus; Spreading depression; High potassium; Adenosine; Adenosine uptake blocker; Population spike; Microdialysis (Kaku, T. (658) 39)

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Glutamate immunocytochemistry
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Glutamate oxidase
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Glutamate receptor
Autoradiography; 6-Hydroxydopamine; Substantia nigra; Striatum; Parkinson's disease (Wüllner, U. (645) 98)

Brain microdialysis; Dopamine; Dopamine release; Glutamate; NMDA receptor; Substantia nigra; Subthalamic nucleus (Rosales, M.G. (645) 335)

Dopamine release; Retina; ON channel; 2-Amino-4-phosphonobutyric acid; ACPD; GABA; Picrotoxin; Excitatory amino acid (Boatright, J.H. (649) 339)

Quisqualate; Protein phosphorylation; Ca^{2+}/calmodulin-dependent protein kinase II; Potassium current; Snail neuron (Onozuka, M. (650) 336)

Wobbler mouse; Motor neuron disease; Spinal cord; Autoradiography (Tomiyama, M. (650) 353)

AMPA; Excitatory amino acid; Spinal cord; Paraplegia (Nakamura, R. (654) 279)

Glutamate; Protein phosphorylation; Ca^{2+}/calmodulin-dependent protein kinase II; Potassium current; Snail neuron (Watanabe, K. (654) 352)

In situ hybridization; Hippocampus; Forebrain ischemia (Heurteaux, C. (659) 67)

NMDA receptor; Whole-cell recording; Voltage clamp; Vestibular nucleus; Medial vestibular nucleus; Rat; Slice (Takahashi, Y. (659) 287)

Retinal cell; γ-Aminobutyric acid release; NNC-711; MK-801; CNQX (Ferreira, I.L. (664) 252)

AMPA receptor; Baculovirus; AMPA-selective glutamate receptor α_2 subunit; Ligand-gated ion channel; *Spodoptera frugiperda* insect cell; *Autographa californica* nuclear polyhedrosis virus; *N*-Glycosylation (Hattori, S. (666) 43)

Glutamate receptor channel
NMDA receptor channel; ε Subunit; ζ Subunit; In situ hybridization; Mouse; Retina; Development (Watanabe, M. (634) 328)

Glutamate receptor subtype
Rat basal forebrain; Muscarinic acetylcholine receptor; NMDA receptor; AMPA receptor; Kainate receptor; Autoradiography; In situ hybridization; GABA receptor; Benzodiazepine receptor (Roßner, S. (668) 85)

Glutamate release
Forebrain ischemia; Hypothermia; Eicosanoid production (Patel, P.M. (650) 205)

Monosodium glutamate; Microdialysis; Striatum (Bogdanov, M.B. (660) 337)

Hippocampal slice; Isoflurane (Larsen, M. (663) 335)

Glutamatergic
Serotonin; Supragenual; Prefrontal cortex; Cingulate; Excitatory amino acid; Corticocortical; Spiperone (Read, H.L. (643) 17)

Glutamatergic dysfunction
Memory; Temporal region; Glycine; HA-966; NMDA receptor (Myhrer, T. (662) 263)

Glutamatergic synapse
Acetylcholine; Frequency depression; Neuromodulation; Nucleus accumbens; Presynaptic; Rhythmicity; Stimulus rate (Pennartz, C.M.A. (645) 231)

Glutamate transport
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Glutamate transporter
cDNA; Sequence; Hybridization, in situ; Neuron; Human brain (Shashidharan, P. (662) 245)

Glutamate uptake
Astrocyte; ATP; Azide; Fluoroacetate; Fluorocitrate; Glia; Glutamine (Swanson, R.A. (664) 94)

Glutamic acid
Rat; Hypothalamus; α-Melanocyte-stimulating hormone; *N*-Methyl-D-aspartic acid; Nitric oxide (Wayman, C.P. (666) 201)

Glutamic acid decarboxylase
Colchicine; Ibotenic acid; Nucleus basalis; Cholinergic hypofunction; Biogenic amine; Passive avoidance (Shaughnessy, L.W. (637) 15)

Insulin-dependent diabetes mellitus; Integral membrane protein; GABA; Autoimmune disorder (Nathan, B. (642) 297)

Colocalization; Parvalbumin; Calbindin; Choline acetyltransferase; Acetylcholinesterase; Rat brain (Van der Zee, E.A. (652) 263)

Hypoxia-ischemia; Rat; Perinatology; Cerebral cortex; GABA; Epilepsy; Confocal laser scanning microscopy; Immunofluorescence (Romijn, H.J. (657) 245)

Glutamic acid decarboxylase mRNA
Ischemia; Substantia nigra reticulata; GABA neuron (Saji, M. (643) 234)

Glutaminase
Anoxia; Cerebellar granule cell neuron; Cerebral cortical neuron; Glutamate; Glutamine (Huang, R. (660) 129)

Glutamine
Anoxia; Cerebellar granule cell neuron; Cerebral cortical neuron; Glutamate; Glutaminase (Huang, R. (660) 129)

Astrocyte; ATP; Azide; Fluoroacetate; Fluorocitrate; Glia; Glutamate uptake (Swanson, R.A. (664) 94)

Glutamine synthetase
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γ-Glutamyl transpeptidase
Extracellular matrix; Conditioned medium; Endothelial cell; C_6 rat glioma cell (Mizuguchi, H. (651) 155)

Glutaraldehyde
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Glutathione
Hypothermia; Focal cerebral ischemia; Oxygen free radical; Ascorbate; Postischemic hyperperfusion; Delayed postischemic hypoperfusion (Karibe, H. (649) 12)

12-*O*-Tetradecanoylphorbol-13-acetate; Neurotoxicity; Oxidative stress; Anti-oxidant (Davis, J.B. (652) 169)

ADF; Thioredoxin; Glial cell; Neuronal cell death (Hori, K. (652) 304)

Glutaraldehyde; Antibody; ELISA; Immunohistochemistry; Rat brain (Amara, A. (659) 237)

Mercuric chloride; Methylmercury; Rat; Astrocyte; Aspartate taurine (Aschner, M. (664) 133)

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GLUT1 isoform
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Glycine
NMDA; Kynurenic; Neurotransmitter; Hair cell; Afferent synapse; Semicircular canal; Inner ear (Soto, E. (633) 289)

GABA; Muscimol; Cardiovascular; Sympathetic preganglionic neuron; Microinjection (Madorin, W.S. (634) 13)

Coexistence; Immunofluorescence; AMCA; Texas red; Fluorescein isothiocyanate; GABA (Watt, C.B. (634) 310)

Co-localization; Immunohistochemistry; Peptide (Fleming, A.A. (638) 347)

Visual cortex; Patch-clamp; Voltage-clamp; Single neuron; GABA; NMDA (Takahashi, Y. (640) 229)

GABA; Inhibitory neurotransmission; Benzodiazepine receptor; Confocal laser microscopy (Bohlhalter, S. (642) 59)

NMDA receptor; Nucleus tractus solitarii; Mg^{2+} block; Protein kinase C; Development (Nabekura, J. (648) 152)

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Acetylcholine; Nucleus tractus solitarii; Release (Talman, W.T. (650) 253)

Immunocytochemistry; Postmortem; GABA; Glutamate; Taurine; Retina; Glia (Pow, D.V. (653) 199)

Memory; Glutamatergic dysfunction; Temporal region; HA-966; NMDA receptor (Myhrer, T. (662) 263)

Inflammation; Hyperalgesia; Aspartate; Glutamate; Spinal cord; Dorsal horn; Microdialysis; Serine (Sluka, K.A. (664) 77)

Glutamate; CA1 (Wallis, R.A. (664) 115)

Glycine binding
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Glycoconjugate
Vomeronasal axon; Fasciculation; Lectin; Organotypic culture; Development (Ichikawa, M. (668) 252)

Glycogen
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Glycolipid
Ganglioside; Purkinje cell; Cerebellum; Mutant mouse; Electron microscopy; Monoclonal antibody (Yamamoto, M. (662) 223)

Glycolysis
NMR spectroscopy; NMDA receptor; MK-801; Lactate; Brain metabolism; Amino acid (Loubinoux, I. (643) 115)

Glycosylated protease
Protease; High molecular weight protease (Malik, M.N. (663) 341)

***N*-Glycosylation**
Glutamate receptor; AMPA receptor; Baculovirus; AMPA-selective glutamate receptor α_2 subunit; Ligand-gated ion channel; *Spodoptera frugiperda* insect cell; *Autographa californica* nuclear polyhedrosis virus (Hattori, S. (666) 43)

GM1
Ethanol; Ethanol neurotoxicity; Cycloheximide; Neuroprotection; Septohippocampal system; Dorsal root ganglion (Heaton, M.B. (654) 336)

GM1 ganglioside
Dopamine neuron; MPTP; Substantia nigra; Tissue culture; Tyrosine hydroxylase (Stull, N.D. (640) 308)

GM-CSF
Interleukin-1β; Interleukin-6; Tumor necrosis factor-α; M-CSF; Astrocyte; Microglia (Mizuno, T. (656) 141)

cGMP
Supraoptic nucleus; NMDA receptor; Nitric oxide; Heart rate; Rat (Amir, S. (645) 330)

Barrel rotation; Flocculus; Copula pyramis; Inferior olive; Phosphoinositide; Epilepsy model (Chew, B.H. (647) 345)

Nitric oxide; Nitric oxide synthase; NADPH-diaphorase; Calcium current; Dorsal root ganglion; Development (Ward, S.M. (648) 249)

C-type natriuretic peptide; Cerebral microvessel; Natriuretic peptide (Kobayashi, H. (648) 324)

Nitric oxide; Acetylcholine; Carbachol; Hemoglobin; Protein kinase C; Rat superior cervical sympathetic ganglia; Denervation; Axotomy (Ando, M. (650) 283)

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Invertebrate photoreceptor potential; Light-sensitive K-channel (Gotow, T. (662) 268)

cGMP renewal
Vertebrate rod photoreceptor; Transduction; Slowing of kinetics; Outer segment; Aging (Leibovic, K.N. (653) 325)

GnRH gene expression
NMDA; Adrenergic receptor; Hypothalamus (Suh, J. (645) 36)

Goldfish
Excitatory amino acid; Kainate; Glutamate; AMPA; CNQX; Autoradiography (Barnes, J.M. (637) 323)

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Goldfish optic tectum
Kainic neurotoxicity; NMDA receptor; Torus longitudinalis; Excitatory input (Migani, P. (637) 313)

Gold-lectin tracer
Interposed nuclei; Mesodiencephalic junction; Inferior olive; GABA; Electron microscopy (De Zeeuw, C.I. (653) 345)

Golgi
Morphometry; Association cortex; Basal dendrite; Development; Section thickness (Koenderink, M.J.Th. (653) 173)

Golgi apparatus
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Peroxidase; Residual body; Autophagosome; Iron; Transformed mitochondrion (Brawer, J.R. (633) 9)

Gonadotropin releasing hormone
In vitro; Hypothalamus; Guinea pig; Veratridine; Tetrodotoxin; Calcium antagonist (Giri, M. (648) 270)

Gonadotropin-releasing hormone
Immunohistochemistry; Brain; Ontogenesis; Lizard (D'Aniello, B. (657) 221)

Gonadotropin releasing hormone mRNA
Olfactory piriform cortex; Extrahypothalmus (Choi, W.S. (648) 148)

Gonadotropin-releasing hormone mRNA
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G protein
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Nootropics; Nefiracetam; Aniracetam; Calcium channel; cAMP; NG108-15 cell (Yoshii, M. (642) 123)

Central nervous system; Development; Adenylyl cyclase (Rius, R.A. (643) 50)

Dopamine receptor; 7-Hydroxy-DPAT; Raclopride; Remoxipride; *N*-Propylnorapomorphine; Quinpirole; Magnesium (Liu, Y. (643) 343)

Growth hormone; Aging; Adenylyl cyclase; Growth hormone-releasing hormone; Hypothalamic lesion (Qing, Y. (644) 13)

Alzheimer's disease; Adenylyl cyclase; Hippocampus; Cerebellum; Adenosine A_1-receptor; Coupling; Signal transduction (Schnecko, A. (644) 291)

Invertebrate; *Hermissenda*; GABA; $GABA_B$; Pharmacology (Rogers, R.F. (650) 93)

LY163502; Depolarization; cAMP; Glutamate (Sim, L.J. (651) 311)

Chronic κ-agonist treatment; Antinociception; Tolerance; Low K_m GTPase; Protein kinase C (Feng, Y. (667) 133)

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Adenylyl cyclase; Alzheimer's disease; Postmortem human brain; Signal transduction (O'Neill, C. (636) 193)

M-current; Inward rectification; Inhibitory postsynaptic potential; Patch-clamp; Autonomic nerve; Magnesium; Channel block (Kurenny, D.E. (658) 239)

G_i protein
Strychnine; Somatostatin receptor; Adenylyl cyclase; Brain; Rat (Puebla, L. (644) 59)

Graft
Aging; Circadian; Rhythm; Activity; Benzodiazepine (Van Reeth, O. (643) 338)

Striatum; Corticostriatal afferent; Transplantation; Postsynaptic response (Labandeira-Garcia, J.L. (652) 87)

Astroglia; Brain injury; Metabolism; Immunocytochemistry; Glucose (Rosenstein, J.M. (659) 277)

Grand mal seizure
Opioid peptide; Mossy fiber; Human; Axonal plasticity (Rees, H. (652) 113)

Granule cell
Serotonin; GABA; Baclofen; 4-Aminopyridine; Burst discharge; Hilar neuron; Hippocampal slice (Ghadimi, B.M. (633) 27)

Serotonin; Spatial learning; Hippocampus; Dentate gyrus; Interneuron (Richter-Levin, G. (642) 111)

Granule cell culture
Excitotoxicity; Ion substitution; Calcium; Cell death (Dessi, F. (650) 49)

Excitotoxicity; Protein synthesis; 2D-PAGE; GRP 78 (Dessi, F. (654) 27)

Granule cell migration
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Grooming
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Scratching; NK-1 agonist; NK-2 agonist; Intracerebroventricular; Mouse; NK-1 receptor; Substance P; Septide (Ravard, S. (651) 199)

Grooming behavior
Neuromedin C; Phyllolitorin analogue; Scratching; Bombesin antagonist (Masui, A. (637) 331)

Ground squirrel
Melatonin; Guinea pig; Suprachiasmatic nucleus; Pars tuberalis; Photoperiod (Bittman, E.L. (648) 73)

Growth
β-Endorphin; Cholecystokinin octapeptide; CCK-8; DNA synthesis; Development (Bartolome, J.V. (661) 19)

Growth-associated gene
Gene expression; GAP-43; Stathmin; p19; MAP2; α1-Tubulin; Plasticity; Brain; Neuron; In situ hybridization (Himi, T. (655) 177)

Growth-associated protein
Substantia nigra; Hemitransection; Striatal ischemia; Rat brain; GABA; Immunohistochemistry (Goto, S. (647) 333)

Growth cone
Nerve growth factor; PC12D cell; Neurite; Ruffle; Chemotaxis (Sano, M. (656) 210)

Axon; Actin; Cell motility; Tyrosine kinase (Smalheiser, N.R. (660) 309)

Growth cone formation
Nerve transection; Regeneration; Ciliary neurotrophic factor; Axonal elongation (Sahenk, Z. (655) 246)

Growth factor
Neuro–glia interaction; Mutant mouse; S-100β; Serotonin; Cell culture (Ueda, S. (633) 284)

Inhibition; Proliferation; Protein synthesis; Sciatic nerve (Edbladh, M. (641) 76)

Nerve growth factor; Retroviral vector; Rat retina (Castillo, Jr., B. (647) 30)

Substantia nigra; Glia; Basic fibroblast growth factor (O'Malley, E.K. (647) 83)

β-Amyloid protein; Brain cell proliferation; Signal transduction; Alzheimer's disease (Singh, V.K. (660) 353)

Neuroblast; Neurogenesis; Cell division; Cell death; Nerve growth factor; Insulin (Pincus, D.W. (663) 51)

Growth hormone
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Hippocalcin; Thyroid hormones; Snell dwarf mouse; Immunohistochemistry (Sugisaki, T. (665) 101)

Growth hormone-releasing hormone
Growth hormone; Aging; Adenylyl cyclase; G protein; Hypothalamic lesion (Qing, Y. (644) 13)

Growth inhibitory factor
Metallothionein; Alzheimer's disease; Neurotrophic factor; Cortical neuron culture;

MT-III, recombinant; Cadmium exchange assay; Human brain extract (Erickson, J.C. (649) 297)

GRP 78
Excitotoxicity; Granule cell culture; Protein synthesis; 2D-PAGE (Dessi, F. (654) 27)

GTPase
Aging; Alzheimer's disease; Muscarinic signal transduction (Cutler, R. (664) 54)

Guam
Amyotrophic lateral sclerosis; Corticocortical connection; Dementia; Neurofibrillary tangle; Parkinsonism (Hof, P.R. (650) 107)

Guanabenz
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Substance P; Norepinephrine; α_2-Adrenoceptor; Nucleus reticularis gigantocellularis; Microdialysis; Rat (Tsou, M.-Y. (653) 183)

Guanethidine
Indomethacin; Inflammation; Vascular permeability; Rat (Mathison, R. (644) 251)

Glucose uptake; Skeletal muscle; Sympathetic nerve; Adrenal medulla; Ventromedial hypothalamic nucleus (Minokoshi, Y. (649) 343)

Guanine nucleotide
Endothelin; Cerebellum; Receptor subtype (Jarvis, M.F. (665) 33)

Guanylate cyclase
Ultracytochemistry; Rat atrial natriuretic factor; Porcine brain natriuretic peptide; Neurohypophysis; Rat (Rambotti, M.G. (644) 52)

Guanylyl cyclase
Extracellular cGMP; Nitric oxide; Nitric oxide synthase; N^G-Nitro-L-arginine methyl ester; Phosphodiesterase (Laitinen, J.T. (668) 117)

Guinea pig
Autoradiography; Binding study; Brain; NK_1 receptor; Rat; Selective agonist; ^{3}H-[Pro^9]SP (Saffroy, M. (633) 317)

Gentamicin; Outer hair cell; Cochlea; Patch-clamp; PBFI (Ernst, A. (636) 153)

Melatonin; Ground squirrel; Suprachiasmatic nucleus; Pars tuberalis; Photoperiod (Bittman, E.L. (648) 73)

In vitro; Gonadotropin releasing hormone; Hypothalamus; Veratridine; Tetrodotoxin; Calcium antagonist (Giri, M. (648) 270)

Outer hair cell; Cisplatin; Ototoxicity; Calcium current; Whole-cell voltage clamp (Yamamoto, T. (648) 296)

Morphine; DPDPE; U50488H; Opioid; Dopamine D_2 receptor; Striatum; Nucleus accumbens (Brent, P.J. (654) 191)

Cochlea; Outer hair cell; Patch-clamp; Potassium channel; Resting potential (Nakagawa, T. (661) 293)

Histamine; H_3 receptor; Brain; Basal ganglia; Mouse (Cumming, P. (664) 276)

Guinea-pig
Substantia nigra; Intracellular recording (Hajós, M. (660) 216)

Gustatory cortex
Hamster; Inhibition; Extracellular activity; Taste cortex; Taste stimulus (London, J.A. (666) 270)

Gustatory stimuli
Turtle olfactory response; Nonvolatile substance; Salt; Acid; Bitter substance (Shoji, T. (666) 68)

GVIA
FTX; Ca^{2+}-channel; N-channel; Spermine; ω-Conotoxin; P-channel; Binding; AgaIVA; MVIIC (Lundy, P.M. (643) 204)

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^{1}H
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H-7
Nodose ganglion; Serotonin 5-HT_3 receptor; Patch clamp; H-8; Protein kinase (Fan, P. (649) 310)

H-8
Nodose ganglion; Serotonin 5-HT_3 receptor; Patch clamp; H-7; Protein kinase (Fan, P. (649) 310)

H7
ADR activity; Calphostin C; Cell proliferation; Protein kinase C (Miñana, M.D. (667) 161)

(+)-HA-966
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HA-966
Memory; Glutamatergic dysfunction; Temporal region; Glycine; NMDA receptor (Myhrer, T. (662) 263)

Habenula
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Habituation
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Ethanol; Audiogenic seizure; Reticular formation; Seizure network; Startle (Faingold, C.L. (663) 69)

Concanavalin A; Tectum; *Rana pipiens*; Glutamate; Nucleus isthmus (Scherer, W.J. (667) 209)

Hair cell
Glycine; NMDA; Kynurenic; Neurotransmitter; Afferent synapse; Semicircular canal; Inner ear (Soto, E. (633) 289)

Non-NMDA receptor; Transmitter; Modulator; Vestibular; Invertebrate (Tu, Y. (642) 47)

Vestibular; Efferent; Synapse; Acetylcholine; Nicotinic; Labyrinth; Frog (Cochran, S.L. (642) 344)

Sacculus; Cholinergic receptor; Inositol trisphosphate; Heparin; Lithium (Yoshida, N. (644) 90)

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Glutamate; Carnosine; Excitatory amino acid; Aminoacylhistidine dipeptide; Frog semicircular canal; Immunocytochemistry (Panzanelli, P. (662) 293)

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Accumbens; Catalepsy; Dopamine; GABA; Microdialysis; Neostriatum; Tolerance (Osborne, P.G. (634) 20)

σ Opioid receptor; NCB20 cell; Naloxone; Remoxipride; Antipsychotic; K channel (Morio, Y. (637) 190)

Catalepsy; Dopamine; Glutamate; NMDA receptor; Caudate-putamen; Rat (Yoshida, Y. (639) 139)

Cholecystokinin; Opioid; Heroin self-administration; Morphine drug discrimination; Devazepide; L365-260; Dopamine (Higgins, G.A. (640) 246)

Clozapine; Dopamine; Drug discrimination; *cis*-Flupentixol; Nicotine (Brioni, J.D. (643) 1)

Uridine; Conditioned avoidance; Antipsychotic; Schizophrenia (Myers, C.S. (651) 194)

TIDA; Dopamine; Morphine; Norepinephrine; Apomorphine; Luteinizing hormone; Prolactin; Tuberoinfundibular (He, J.-R. (653) 1)

3-Methoxytyramine; Dopamine release; Cerebellum; Hippocampus; Electroconvulsive shock; Mass fragmentography (Chrapusta, S.J. (655) 271)

Halothane
Suprachiasmatic nucleus; Circadian rhythm; Glia; Octanol; Fluorocitrate; Brain slice (Prosser, R.A. (643) 296)

α-Chloralose; Anesthesia; Laser–Doppler flowmetry; Cortical blood flow; CO_2 responsiveness (Bonvento, G. (665) 213)

Hamster
Dopamine; Dihydroxyphenylacetic acid; Prolactin; Tyrosine hydroxylase; Gender difference (Krajnak, K. (634) 159)

Suprachiasmatic nucleus; Serotonin; 8-Hydroxy-DPAT; Buspirone; NAN-190; Tryptophan; Fos; Light; Circadian rhythm (Glass, J.D. (638) 235)

Autoradiography; Castration; Hypothalamus; Oxytocin; Sex difference; Vasopressin (Dubois-Dauphin, M. (638) 267)

Suprachiasmatic nucleus; NMDA; MK-801; Circadian rhythmicity; Glutamate; Excitatory amino acid; Enucleation; Rat (Hartgraves, M.D. (640) 113)

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Suprachiasmatic nucleus; Serotonin; 8-Hydroxy-DPAT; Glutamate; Circadian rhythm; Microdialysis (Srkalovic, G. (656) 302)

Gustatory cortex; Inhibition; Extracellular activity; Taste cortex; Taste stimulus (London, J.A. (666) 270)

Anterograde neuronal tracing; Choleratoxin; Suprachiasmatic nucleus; Hypothalamus; Nitric oxid synthase; NADPH-diaphorase; Retinohypothalamic tract (Decker, K. (666) 284)

Handedness
Transcranial magnetic stimulation; Human motor system; Asymmetry; Motor evoked potential (Triggs, W.J. (636) 270)

Harmaline
Inferior olivary complex; 3-Acetylpyridine; Rat (Jones, N. (656) 257)

Ibogaine; Tabernanthine; Coronaridine; Ibogamine; Desethylcoronaridine; Morphine; Cocaine; Drug self-administration (Glick, S.D. (657) 14)

Corticotropin-releasing factor; Inferior olive; In situ hybridization histochemistry (Cummings, S. (660) 199)

Headache
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Head injury / pathology
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Head trauma
Calcium; Cell culture; Cerebral cortex; Excitotoxicity; Glutamate; Neurotoxicity (Regan, R.F. (633) 236)

Brain injury; Recovery of function; Plasticity; Catecholamine (Dunn-Meynell, A. (660) 88)

Heart rate
Fastigial nucleus; Blood pressure; Kainate; Awake rat; Anesthesia; Microdialysis (Parry, T.J. (635) 27)

Stress; Blood pressure; Motivation; NMDA lesion (Frysztak, R.J. (643) 181)

Supraoptic nucleus; NMDA receptor; Nitric oxide; cGMP; Rat (Amir, S. (645) 330)

Angiotensin II; Arginine-vasotocin; Neuropeptide; Central nervous system; Blood pressure; Angiotensin AT_1 receptors; Trout (Le Mevel, J.-C. (654) 216)

Blood pressure; Baroreflex; L-Glutamate; *p*-Chloromercuriphenylsalfonic acid; Phenylephrine; Rostral ventrolateral medulla; Conscious rat (Mao, L. (654) 343)

Microinjection; Defense reaction; Blood pressure; Conscious rat (Itoi, K. (668) 100)

Heat shock protein
Cerebral ischemia; Ischemic tolerance; HSP27; HSP70; αB crystallin; Rat; Immunohistochemistry; Enzyme immunoassay (Kato, H. (634) 235)

Northern blot analysis; In situ hybridization; Stress response; Focal cerebral ischemia (Higashi, T. (650) 239)

Limbic seizure; Status epilepticus; Cell death; Epileptic cell death; NMDA; Substantia nigra; Epilepsy (Tanaka, K. (660) 192)

Cytoprotection; Bilirubin; Gene expression (Takeda, A. (666) 120)

Heatshock protein 70
Transient forebrain ischemia; Development; Gerbil hippocampus; Delayed neuronal death; Central nervous system (Soriano, M.A. (653) 191)

Heat shock protein 72
Astrocyte; Fetal human brain culture; Heat stress; Microglia; Neuron; Oligodendrocyte (Satoh, J.-i. (653) 243)

Heat stress
Astrocyte; Fetal human brain culture; Heat shock protein 72; Microglia; Neuron; Oligodendrocyte (Satoh, J.-i. (653) 243)

Helium clearance
Basal forebrain; Substantia innominata; Cortical blood flow; Cortical PO_2; Cortical PCO_2; Aging; Alzheimer's disease; Fischer 344 rat; Cerebral blood-flow regulation; Physostigmine; Intrinsic cholinergic innervation (Sercombe, R. (662) 155)

Helix
Homosynaptic depression; Identified synapse; Opioid peptide; GABA; Naloxone; Synaptic transmission (Gutiérrez, R. (667) 243)

***Helix* bursting neuron**
CAN current; Mitochondrion (Partridge, L.D. (647) 76)

Helix pomatia
GABA; Muscimol; Baclofen; Sodium current; Calcium current (Haarmeier, Th. (663) 131)

***Helix pomatia* L.**
Tachykinin-related peptide; Locustatachykinin; Substance P; Immunocytochemistry; Invertebrate; Mollusc (Elekes, K. (661) 223)

Heme oxygenase
Zinc protoporphyrin IX; HPA; Neurotransmitter; Rat (Parkes, D. (646) 315)

Hemicholinium-3
Autoradiography; High-affinity choline uptake carrier; *N*-Methyl scopolamine; Muscarinic receptor; Muscarinic M_1 receptor; Parkinson's disease (Rodríguez-Puertas, R. (636) 327)

Hemiplegia
Spasticity; Motor control; Stretch reflex; Threshold (Levin, M.F. (657) 23)

Hemitransection
Growth-associated protein; Substantia nigra; Striatal ischemia; Rat brain; GABA; Immunohistochemistry (Goto, S. (647) 333)

Hemoglobin
Neuron; Developmental regulation; Free radical; Neuronal degeneration (Ohyagi, Y. (635) 323)

Nitric oxide; Acetylcholine; Carbachol; cGMP; Protein kinase C; Rat superior cervical sympathetic ganglia; Denervation; Axotomy (Ando, M. (650) 283)

Hemoglobin oxygenation state
Flow-metabolic coupling; Sleep–wake cycle; REM sleep; Cerebral blood flow; Cerebral oxygen metabolic rate (Hoshi, Y. (652) 257)

Hemorrhage
Caudal ventrolateral medulla; A1 noradrenergic neuron; Vasopressin; Arterial pressure; Endocrinology (Gieroba, Z.J. (657) 330)

Brain microdialysis; Vasopressin; Sexual dimorphism; Blood pressure; Paraventricular nucleus (Ota, M. (658) 49)

Supraoptic nucleus; Paraventricular nucleus; c-*fos*; Water deprivation; Oxytocin; Vasopressin; Lactation (Fénelon, V.S. (662) 165)

Dihydroxyphenylalanine; Dihydroxyphenylacetic acid; 5-Hydroxyindoleacetic acid; Homovanillic acid; Hypothalamic paraventricular nucleus; In vivo microdialysis; Noradrenaline (Morris, M.J. (665) 5)

Hemorrhagic shock
Oxotremorine; Muscarinic; Atropine; Nicotinic; Mecamylamine; AV3V lesion (Onat, F. (660) 261)

Heparan sulfate
Proteoglycan; Basic fibroblast growth factor; Tyrosine hydroxylase; Immunocytochemistry; Coexistence; Brain (Fuxe, K. (636) 131)

Heparin
Hair cell; Sacculus; Cholinergic receptor; Inositol trisphosphate; Lithium (Yoshida, N. (644) 90)

Hepatic encephalopathy
Amino acid release; Ammonium chloride; Astrocyte; GABA; Glutamate; Taurine (Albrecht, J. (660) 288)

Hepatocyte growth factor
c-Met protein; Astrocyte; Microglia; Alzheimer's disease (Yamada, T. (637) 308)

Hermissenda
Invertebrate; GABA; $GABA_B$; G protein; Pharmacology (Rogers, R.F. (650) 93)

Heroin self-administration
Cholecystokinin; Opioid; Morphine drug discrimination; Devazepide; L365-260; Dopamine; Haloperidol (Higgins, G.A. (640) 246)

Hexamethylpropylene amine oxime
Epilepsy; Kindling; Benzodiazepine receptor; Cerebral blood flow; Iomazenil (Kurokawa, K. (642) 303)

2,5-Hexanedione
Glial fibrillary acidic protein; GFAP; Hippocampus; Protein phosphorylation; Rat (Pereira, M.E. (656) 417)

High-affinity choline uptake
Estrogen; Choline acetyltransferase; Learning; Memory; Cytoprotection (Singh, M. (644) 305)

Cholinergic septo-hippocampal system; Noradrenergic drug; α-Adrenoceptor; Transsynaptic modulation; Mouse (Marighetto, A. (652) 120)

High-affinity choline uptake carrier
Autoradiography; Hemicholinium-3; *N*-Methyl scopolamine; Muscarinic receptor; Muscarinic M_1 receptor; Parkinson's disease (Rodríguez-Puertas, R. (636) 327)

Higher vocal center
GABA; Immunohistochemistry; Bird song; Sex difference; Robust nucleus of the archistriatum (Grisham, W. (651) 115)

High molecular weight protease
Protease; Glycosylated protease (Malik, M.N. (663) 341)

High-performance liquid-chromatography
Neuro–glia interaction; Mutant mouse; Serotonin; Glial fibrillary acidic protein; Immunocytochemistry (Ueda, S. (633) 275)

High performance liquid chromatography
Insulin-like substance; Insulin receptor; Fetal neuron cell culture; Peroxidase–antiperoxidase; In situ hybridization; Northern blot; Radioimmunoassay; Western blot (Schechter, R. (636) 9)

Circadian rhythm; Serotonin; Suprachiasmatic nucleus; Entrainment; Rat (Cagampang, F.R.A. (639) 175)

High potassium
Hippocampus; Spreading depression; Glutamate; Adenosine; Adenosine uptake blocker; Population spike; Microdialysis (Kaku, T. (658) 39)

High pressure
Dopamine; Microdialysis; Narcosis; Rat; Striatum (Barthelemy-Requin, M. (667) 1)

High-voltage activated current
Opioid peptide; Basal ganglia; Whole-cell patch clamp (Stefani, A. (642) 339)

Hilar neuron
Serotonin; GABA; Baclofen; 4-Aminopyridine; Burst discharge; Granule cell; Hippocampal slice (Ghadimi, B.M. (633) 27)

Hindpaw
Afferent fiber; Plantar injection; Mechanical stimulation; Thermal stimulation; Pain (Fukuoka, H. (657) 133)

Hindpaw withdrawal latency
Calcitonin gene-related peptide; $CGRP_{8-37}$; CGRP antagonist; CGRP receptor; Substance P; Intrathecal injection (Yu, L.-C. (653) 223)

Hippocalcin
Growth hormone; Thyroid hormones; Snell dwarf mouse; Immunohistochemistry (Sugisaki, T. (665) 101)

Hippocampal CA1 neuron
Ethanol withdrawal; Hyperexcitability; Burst response; Ca spike; Slice preparation (Shindou, T. (656) 432)

Hippocampal cell culture
Alzheimer's disease; Amyloid β-protein; Aggregation; Neurotoxic; MTT assay (Ueda, K. (639) 240)

Excitotoxicity; Calbindin D_{28K}; Calretinin (Möckel, V. (648) 109)

Hippocampal-entorhinal formation
Synapse protein; Alzheimer's disease; Lewy body disease; Neuritic plaque; Confocal laser-scanning microscopy (Wakabayashi, K. (667) 24)

Hippocampal formation
Neurotrophic factor; Neuronal plasticity; Gene expression; In situ hybridization (Gwag, B.J. (647) 23)

Nerve growth factor; Neurotrophin; Neuropeptide Y; Vasoactive intestinal polypeptide; Cerebral cortex (Lapchak, P.A. (654) 1)

Dynorphin; Blood pressure; Spontaneously hypertensive rat; Wistar–Kyoto rat; Colchicine; Hypertension (Privette, T.H. (656) 295)

Prenatal protein malnutrition; Hippocampus; CA3 pyramidal cell; Morphometric Golgi study; Malnutrition (Díaz-Cintra, S. (662) 117)

Ventral tegmental area; Substantia nigra; Mesolimbic dopaminergic system; Fluoro-Gold; Tyrosine hydroxylase (Gasbarri, A. (668) 71)

Hippocampal mossy fiber distribution
Aggression; Selection; Mouse (Sluyter, F. (646) 145)

Hippocampal neuron
Transforming growth factor-β; Neuronal survival; Neurite sprouting; Process elongation; Cell culture (Ishihara, A. (639) 21)

$GABA_A$ receptor; Benzodiazepine; Cl^- current; Pentobarbital; Ethanol; Cl-218,872 (Aguayo, L.G. (647) 97)

Hippocampal sclerosis
Muscimol; Kainic acid; Seizure; Hippocampus (Araki, T. (653) 237)

Hippocampal slice
Serotonin; GABA; Baclofen; 4-Aminopyridine; Burst discharge; Hilar neuron; Granule cell (Ghadimi, B.M. (633) 27)

Glutamate; GABA; Neural network; Oscillator; Seizure; Field potential; EEG; Model (Schneiderman, J.H. (633) 105)

Ischemic damage; NMDA component; CA1 pyramidal neuron; Stroke-prone spontaneously hypertensive rat; L-type Ca^{2+} channel blocker (Yasui, M. (642) 146)

Serotonin; Long-term potentiation; Theta burst stimulation; NMDA receptor; GABA receptor; CA1 (Staubli, U. (643) 10)

Metabotropic glutamate receptor; Purine release; cAMP; Forskolin (Casabona, G. (645) 13)

Status epilepticus; Hippocampus; Kainate; Synaptoneurosome; Glutamate metabotropic receptor; Carbachol (Mayat, E. (645) 186)

Mongolian gerbil; Rat; Ischemic depolarization; Experimental ischemia; Neuronal death; Anoxia (Stittsworth Jr., J.D. (649) 353)

Nitric oxide; NMDA receptor; Excitotoxicity; Transmitter release (Akira, T. (652) 190)

Chronic morphine; Morphine withdrawal; β-Adrenoceptor; Ca^{2+}-activated potassium afterhyperpolarization; Pyramidal neuron (Ackerman, J.M. (656) 309)

Metabotropic receptor; Quisqualate; DCG-IV; Phorbol ester (Genazzani, A.A. (659) 10)

Reeler mutant mouse; Calcium-binding protein; Parvalbumin; F3/F11 protein; Immunohistochemistry (Ishida, A. (662) 60)

Isoflurane; Glutamate release (Larsen, M. (663) 335)

Toluene; Neurotransmission; Excitation; Inhibition (Ikeuchi, Y. (664) 266)

Mechanical brain injury; Anti-ischemic activity; Intracellular free calcium; Fura-2; Oxygen–glucose deprivation (Honda, T. (666) 263)

Hippocampal slices
Sodium nitroprusside; Nitric oxide; Long-term potentiation (Li, G. (667) 33)

Hippocampus
Immunohistochemistry; Immunoblot; Alzheimer's disease; Cytoskeleton; Microtubule (Geddes, J.W. (633) 1)

Long-term potentiation; G protein; ACPD receptor; Phosphoinositide (Breakwell, N.A. (633) 72)

Acetylcholine; Choline-*O*-acetyltransferase; Synaptic vesicle; SV_2; Rat brain; Synaptophysin (Carroll, P.T. (633) 112)

CA1; Dehydroepiandrosterone sulfate; Neurosteroid; Postsynaptic potential; Excitatory postsynaptic potential; Inhibitory postsynaptic potential; Field potential (Meyer, J.H. (633) 253)

Cerebral anoxia; Cerebral ischemia; Depolarization; Calcium; Sodium; Potassium; ATP (Kass, I.S. (633) 262)

Nitric oxide; L-NAME; Cerebral ischemia; Working memory; Reference memory; Rat (Ohno, M. (634) 173)

Electroencephalogram; Cerebral blood flow; Propagation; Limbic system; Kainate; Seizure (Goto, Y. (634) 203)

Kindling; Neuroprotection; Kainic acid; Status epilepticus; Epilepsy; Piriform cortex; Substantia nigra (Kelly, M.E. (634) 245)

Synapse; P-type calcium channel; Transmitter release; Agatoxin; Mossy fiber; Perforant fiber (Yamamoto, C. (634) 349)

Neurotrophic factor; Transferrin; Cerebellum; Myelin; Iron; Neurodevelopment (Dickinson, T.K. (635) 169)

Microdialysis; Noradrenaline overflow; Noradrenaline metabolite; α_2-Autoreceptor; Medial prefrontal cortex; Frontoparietal cortex; Amygdala (Van Veldhuizen, M.J.A. (635) 238)

Cerebral ischemia; Excitatory amino acid; Free fatty acid; Phospholipase (Katayama, Y. (635) 331)

Corticosterone receptor; Primary culture; Glucocorticoid; Mineralocorticoid (O'Donnell, D. (636) 49)

EEG; Histamine; α-Fluoromethylhistidine; Neocortex; Theta rhythm (Servos, P. (636) 98)

Entorhinal cortex; Dentate gyrus; Pentylenetetrazol; Tetrodotoxin; Epileptiform activity (Stringer, J.L. (636) 221)

Corticosteroid Type I receptor; Corticosteroid Type II receptor; Mineralocorticoid receptor; Cortex; Hypothalamus; Cerebellum; Cortisol (Brooke, S.M. (637) 303)

Long-term potentiation; Fiber volley; Tetraethylammonium; 4-Aminopyridine; Presynaptic; Action potential; Potassium channel (Lærum, H. (637) 349)

NBQX; AMPA receptor; Kindling; Amygdala; Antiepileptogenic effect; Anticonvulsant effect; Epilepsy (Namba, T. (638) 36)

Calcium channel; Glutamate; GABA; Microdialysis; ω-Conopeptide (Newcomb, R. (638) 95)

Ventral striatum; Amygdala; Spatial memory; Single unit activity (Lavoie, A.M. (638) 157)

AMPA receptor; Excised patch; 1-BCP (Arai, A. (638) 343)

Ischemia; Acetylcholine; Delayed neuronal death; Microdialysis; Gerbil (Ishimaru, H. (639) 66)

Spatial memory; Radial arm maze; Stress; Tianeptine; Phenytoin (Luine, V. (639) 167)

Aging; HPLC-chemiluminescence; Phosphatidylcholine hydroperoxide; Hydroxyl radical; Striatum; Cortex (Zhang, J.-R. (639) 275)

$GABA_B$ receptor; $GABA_A$ receptor; Serotonin 5-HT_{1A} receptor; Neocortex; Estros cycle; Steroid hormone; Progesterone; Estrogen (Al-Dahan, M.I. (640) 33)

c-Fos; Hypoxia; Cortex; Rat (Taniguchi, T. (640) 119)

Asymmetry; Serotonin HT_{1A} receptor; 8-Hydroxy-DPAT; Locomotion; Learning; Memory; Anxiety (Belcheva, I. (640) 223)

[^{3}H]QNB binding; Homogenate; Neocortex; Brainstem; Cerebellum; Traumatic brain injury; Fluid percussion (Lyeth, B.G. (640) 240)

Brain; Choroid plexus; Blood–brain barrier; Zinc; Manganese; Essential trace metal (Takeda, A. (640) 341)

Alzheimer's disease; Arecoline; Cerebral blood flow; Cerebral glucose metabolism; Muscarinic receptor; Rat (Maiese, K. (641) 65)

Adenosine; Excitatory amino acid; Synaptic transmission; Ischemia (Kano, T. (641) 149)

Advanced glycosylation end product; Pyramidal neuron of different species (Li, J.J. (641) 285)

Dentate gyrus; CA1; Entorhinal cortex; Tetracaine; Current source density; Inhibition (Stringer, J.L. (641) 289)

Ethanol; Acute tolerance; NMDA; Extracellular; Excitatory postsynaptic potential (Grover, C.A. (642) 70)

Glucose; Excitatory amino acid; Cerebral ischemia; Glutamate; Microdialysis (Choi, K.T. (642) 104)

Serotonin; Spatial learning; Dentate gyrus; Granule cell; Interneuron (Richter-Levin, G. (642) 111)

Brain; Transcription factor; Regulatory protein; c-*fos*; c-*jun*; Seizure; Metrazole; CREB; Sensory cortex; Limbic cortex; Cerebellum; Gel-shift; EMSA; Supershift (Łukasiuk, K. (643) 227)

Glutamate; Arachidonic acid; AMPA receptor; Cerebellum; Depression (Kovalchuk, Y. (643) 287)

Nitric oxide; Glutamate; Long-term potentiation; Synaptosome; Rat (Kamisaki, Y. (644) 128)

Lateral dorsal thalamus; Place cell; Spatial learning (Mizumori, S.J.Y. (644) 168)

1-Methyl-6,7-dihydroxy-1,2,3,4-tetrahydroisoquinoline; Salsolinol; Dopamine; Serotonin; Striatum; Substantia nigra; Hypothalamus; Microdialysis (Nakahara, D. (644) 226)

Alzheimer's disease; Adenylyl cyclase; Cerebellum; Adenosine A_1-receptor; G protein; Coupling; Signal transduction (Schnecko, A. (644) 291)

Mossy fiber; Synaptosome; Irradiation; Amino acid release; Glutamate decarboxylase (Taupin, P. (644) 313)

Vasopressin; Presynaptic potential; Hypoxia/hypoglycemia; Ischemia (Tanaka, T. (644) 343)

Intra- and infrapyramidal mossy fiber; Eight arm radial maze; Spatial learning; C57BL/6J mice; Inbred strain (Jamot, L. (644) 352)

Norepinephrine; Microdialysis; Cocaine; Frontal cortex; Locus coeruleus (Thomas, D.N. (645) 135)

Status epilepticus; Kainate; Synaptoneurosome; Hippocampal slice; Glutamate metabotropic receptor; Carbachol (Mayat, E. (645) 186)

Spreading depression; Seizure; mRNA; Glial fibrillary acidic protein (Bonthius, D.J. (645) 215)

Rat; Dissociated pyramidal neuron; Nystatin perforated patch; Sevoflurane; Chloride current (Wu, J. (645) 303)

Vasopressin V_1 receptor; Adrenalectomy; Mineralocorticoid receptor (type I); Glucocorticoid receptor (type II); Receptor binding (Saito, R. (646) 170)

Naftidrofuryl oxalate; Neurotransmitter; Receptor; Second messenger; Serotonin 5-HT_2 antagonist; Gerbil; Aging (Ban, H. (646) 211)

Long-term potentiation; Protein kinase C; Calcium; CA1; EPSP; Rat (Cheng, G. (646) 230)

ATP; Glucocorticoid; Hypoglycemia; Hypoxia; Neuron; Neuron death; Stress (Lawrence, M.S. (646) 303)

Senescence-accelerated mouse; Nerve growth factor; Neurotrophin; Development; mRNA (Kaisho, Y. (647) 139)

Cerebral ischemia; $GABA_A$ receptor; Diazepam; Neuroprotection; GABA (Schwartz, R.D. (647) 153)

Benzodiazepine; Flumazenil; Acetylcholine release; Microdialysis (Imperato, A. (647) 167)

CA1; NMDA; Polyamine; Spermine (Di-Scenna, P.G. (647) 353)

Acetylcholine; Microdialysis; Basal forebrain; Dual probe; Glutamate; Receptor; Kainate; NMDA; Medial septum; Diagonal band; Septal stimulation (Moor, E. (648) 32)

Calcineurin; Kindling; Rat brain; Neocortex; Cyclosporin A; FK506; Immunosuppressant (Moia, L.J.M.P. (648) 337)

Kindling; Kindled seizure; Epileptogenesis; Epilepsy; Seizure; Limbic system (Lothman, E.W. (649) 71)

mRNA stability; In situ hybridization (Wetzel, D.M. (649) 117)

Glutamate; Quisqualate; Sensitization; CA1 pyramidal neuron; AP4; AP6; Excitatory amino acid; Excitatory amino acid (Schulte, M.K. (649) 203)

Adenosine; Adenosine A_{2a} receptor; Adenosine A_1 receptor (Cunha, R.A. (649) 208)

Corticosterone; Mineralocorticoid receptor; Glucocorticoid receptor; Calcium current; CA1 neuron; In situ patch clamp; Rat (Karst, H. (649) 234)

Alcohol withdrawal; Genetic model; Seizure; Calcium current; Whole cell voltage clamp (Perez-Velazquez, J.L. (649) 305)

Muscarinic M_1 receptor; Muscarinic M_2 receptor; Pirenzepine; AF102B; Methoctramine; Working memory; Reference memory (Ohno, M. (650) 260)

Acetylcholine; Serotonin; Memory; Alzheimer's disease (Murtha, S.J.E. (651) 16)

Anticonvulsant; GABA; γ-vinyl-GABA; Inhibition; Paired-pulse (Jackson, M.F. (651) 85)

Quinuclidinylbenzilate; Receptor binding; Homogenate; Brainstem; Neocortex; Fluid percussion; Traumatic brain injury (Jiang, J.Y. (651) 123)

Kindling; Thyrotropin-releasing hormone; Carbamazepine; Tolerance; Entorhinal cortex; Pyriform cortex; Perirhinal cortex; mRNA; In situ hybridization (Rosen, J.B. (651) 252)

Serotonin 5-HT_3-like receptor; CA1 pyramidal neuron; Synaptic transmission; 2-Methyl-5-hydroxytryptamine; L-Glutamate (Zeise, M.L. (651) 337)

Cerebral ischemia; Ischemic tolerance; NADPH-diaphorase; Nitric oxide synthase; Rat (Kato, H. (652) 71)

Fenfluramine; Penile erection; Cholinergic; Serotonergic; Dopaminergic; Medial septum; Fimbria-fornix; Raphe nucleus (Maeda, N. (652) 181)

Fluid percussion; AFDX384; Acetylcholine; Pirenzipine; Autoradiography; Traumatic brain injury; Receptor binding (DeAngelis, M.M. (653) 39)

Kainate; Neurotoxicity; Spatial learning; Water maze; Rat (Gayoso, M.J. (653) 92)

Muscimol; Kainic acid; Seizure; Hippocampal sclerosis (Araki, T. (653) 237)

Epilepsy; Long-term potentiation; Long-term depression; Interictal; Ictal; Seizure; Potassium (Contzen, R. (653) 340)

Glucocorticoid; Ischemia; Cell culture; Cyanide; D-Aspartate (Chou, Y.-C. (654) 8)

Norepinephrine; Dopamine; Amphetamine; Cocaine; Clonidine; Prefrontal cortex; Microdialysis; Caudate (Florin, S.M. (654) 53)

Median raphe nucleus; Theta rhythm; Excitatory amino acid; NMDA (Kinney, G.G. (654) 96)

Brain LH/hCG receptor; Sleep–wake phase; Behavior; PGD_2; PGE_2; Medial preoptic area; Cerebral cortex (Toth, P. (654) 181)

Brain ischemia; Glucose-oxygen deprivation; Acidosis; Lactic acidosis; CO_2 acidosis; Population spike (Morimoto, Y. (654) 273)

Nerve growth factor; Hypophagia; Neurotrophin; Hypothalamus; Bombesin; Neuropeptide Y; Cholecystokinin; Brain-derived neurotrophic factor (Lapchak, P.A. (655) 12)

Glucose; Morphine; Acetylcholine; Microdialysis; Memory (Ragozzino, M.E. (655) 77)

Kynurenate; Head injury/pathology; Excitotoxicity; Neuroprotection; NMDA antagonist (Hicks, R.R. (655) 91)

Stress; Glucocorticoid; Glutamate; Microdialysis (Moghaddam, B. (655) 251)

3-Methoxytyramine; Dopamine release; Cerebellum; Electroconvulsive shock; Haloperidol; Mass fragmentography (Chrapusta, S.J. (655) 271)

Somatic spine; Development; Synaptogenesis; In vitro slice; Dentate gyrus (Wenzel, J. (656) 127)

Long-term potentiation; Lesion; Basolateral amygdala; Amygdalo-hippocampal interaction (Ikegaya, Y. (656) 157)

Theta rhythm; Septum; Carbachol; Atropine; Gallamine; Muscarinic M_2 receptor; Septal infusion (Monmaur, P. (656) 199)

Spatial memory; Fimbria-fornix lesion; Neural transplantation; Long-term potentiation; Epileptiform activity; Rat (Kleschevnikov, A.M. (656) 221)

Immunocytochemistry; Electron microscopy; Monkey; Protein kinase C; Subspecies; Presynapse (Saito, N. (656) 245)

Neuronal cell line; SV40 large T antigen (Eves, E.M. (656) 396)

Glial fibrillary acidic protein; GFAP; 2,5-Hexanedione; Protein phosphorylation; Rat (Pereira, M.E. (656) 417)

Glucocorticoid receptor; Mineralocorticoid receptor; Aging; Spatial learning; mRNA (Yau, J.L.W. (657) 59)

Global cerebral ischemia; Autoradiography; Voltage-dependent calcium channel; PN200-110 (isradipine); ω-Conotoxin GVIA (Perry, D.C. (657) 65)

Aging; Stress; Memory; Learning; Radial maze; Water maze; Morphometry (Arbel, I. (657) 227)

Xanthine; Theophylline; Purine; Baclofen; Carbamazepine; Calcium; Adenosine (Hosseinzadeh, H. (657) 300)

Afterdischarge; Excitatory amino acid; Synaptic transmission; Ischemia (Miyazaki, S. (657) 325)

Spreading depression; High potassium; Glutamate; Adenosine; Adenosine uptake blocker; Population spike; Microdialysis (Kaku, T. (658) 39)

Brain temperature; Behavior; Field potential; Sleep; Urethane anesthesia (Cain, D.P. (658) 135)

Cocaine kindling; Prefrontal cortex; Sensitization (Schenk, S. (659) 17)

In situ hybridization; Forebrain ischemia; Glutamate receptor (Heurteaux, C. (659) 67)

Neurotransmitter; Excitatory amino acid; Glutamate; Dentate gyrus; Glutamate oxidase; Ascorbate oxidase (Hu, Y. (659) 117)

Ca^{2+}/calmodulin-dependent protein kinase II; CaM kinase II; Cerebral cortex; Basal ganglia; Thalamus (Ochiishi, T. (659) 179)

Protein kinase C subspecies; Kindling; Epilepsy; Neuronal plasticity; Hydroxylapatite column (Ono, M. (660) 27)

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In vitro release; Neuropeptide Y; Rat; Seizure; Sprouting; Temporal lobe epilepsy (Vezzani, A. (660) 138)

Aggression; Inbred mouse; Mossy fiber; Genetic correlation (Guillot, P.-V. (660) 167)

Rhythmical slow activity; Theta; Electroencephalogram; Neural oscillation; Coherence; Phase; Commissural connection (Kocsis, B. (660) 341)

Long-term potentiation; Pavlovian fear conditioning; Sex difference; Contextual learning; (Rat) (Maren, S. (661) 25)

Acetylcholinesterase; AF64A; Butyrylcholinesterase; Differential PCR display; Reverse transcriptase-PCR; Septum (Lev-Lehman, E. (661) 75)

GABA; Calcium-binding protein; Calbindin; Parvalbumin; Aging (Potier, B. (661) 181)

Adenosine; Hypoxia; NMDA; Glutamate; 1,3-Dipropyl-8-cyclopentylxanthine; Excitatory postsynaptic potential (Canhão, P. (661) 265)

Vasopressin; Calcium; Inositol trisphosphate; Vasopressin V_1 receptor; Neural peptide; Learning and memory; Nerve cell growth (Brinton, R.D. (661) 274)

Prenatal protein malnutrition; CA3 pyramidal cell; Morphometric Golgi study; Malnutrition; Hippocampal formation (Díaz-Cintra, S. (662) 117)

Ischemia; 1,3-Butanediol; Neuronal loss; Ketone body; Protection; CA1 (Sims, N.R. (662) 216)

Norepinephrine; β-Receptor; cAMP; Long-term potentiation; Perforant path; Neural plasticity (Frizzell, L.M. (663) 173)

Glutamate; Quisqualate; Sensitization; Excitatory amino acid (Price Jr., R.H. (663) 317)

Sodium green; Cortex; Volume (Friedman, J.E. (663) 329)

Cerebral ischemia; Ischemic tolerance; Astroglia; Microglia; Immunohistochemistry; Neuron–glia interaction; Gerbil (Kato, H. (664) 69)

Protein kinase C; Second messenger; Ontogeny; Development; Rat; Autoradiography (Lee, E.J. (665) 127)

Ischemia; Dopamine; Presynaptic fiber spike; CA1; Neuroprotection (Yamamoto, Y. (665) 151)

Adenosine; γ-Aminobutyric acid; Chloride; Barium; Muscimol (Akhondzadeh, S. (665) 229)

Antidepressant; Tumor necrosis factor; Adrenergic; Locus coeruleus; Brain (Ignatowski, T.A. (665) 293)

Ethanol; Pentobarbital; γ-Aminobutyric acid; Inhibitory postsynaptic current; Patch-clamp (Weiner, J.L. (665) 307)

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Gerbil; Ischemia; Hippocampus; CA2; (*S*)α-Fluoromethylhistidine (Sugimoto, K. (666) 279)

Histamine H_1 receptor
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Quinuclidinylbenzilate; Receptor binding; Hippocampus; Brainstem; Neocortex; Fluid percussion; Traumatic brain injury (Jiang, J.Y. (651) 123)

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[^{3}H]QNB binding
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H_3 receptor
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Histamine; Brain; Basal ganglia; Mouse; Guinea pig (Cumming, P. (664) 276)

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HSP70
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(±)-7-Hydroxy-*N*,*N*-dipropylaminotetralin
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Low affinity nerve growth factor receptor; Nerve growth factor; Nucleotide sequence; Point mutation; Spontaneously hypertensive rat; Signal peptide (Nemoto, K. (655) 267)

Dynorphin; Hippocampal formation; Blood pressure; Spontaneously hypertensive rat; Wistar–Kyoto rat; Colchicine (Privette, T.H. (656) 295)

Ventrolateral medulla; Angiotensin II; Angiotensin antagonist; Angiotensin-(1–7) antagonist; Angiotensin receptor (Fontes, M.A.P. (665) 175)

Hyperthermia
Fever; *Candida albicans*; Thermoregulation; Anterior hypothalamus; Fungus; Preoptic area; Temperature; Microinjection; Pyrogen contamination; Brain; Rat; Intracerebral injection (Barwick, V.S. (635) 1)

Thrombolytic therapy; Recombinant tissue plasminogen activator; Stroke; Rat; Cerebral blood flow; Hypothermia; Cerebral ischemia (Meden, P. (647) 131)

Focal ischemia; Middle cerebral artery occlusion; Temperature control; Hypothalamic damage; Rat (Zhao, Q. (649) 253)

Hyperthyroidism
Thyroid hormone; Thyroxine; Triiodothyronine; Hypothyroidism; Tricyclic antidepressant; Desmethylimipramine; Deiodination (Gordon, J.T. (634) 96)

Hypertonic saline
Opioid antagonist; μ Opioid receptor; κ Opioid receptor; δ Opioid receptor; Angiotensin II; Drinking; Water intake (Ruegg, H. (635) 203)

Hypnogenic factor
Corticotropin-like intermediate lobe peptide; Vasoactive intestinal polypeptide; Delta sleep inducing peptide; Nucleus raphe dorsalis; Serotonin; Slow wave sleep; Paradoxical sleep; Rat (El Kafi, B. (637) 211)

Hypobaric hypoxia
Brain microcirculation; Angiogenesis; Vascular cast; Capillary segment length (Mironov, V. (660) 73)

Hypogastric nerve
Nociception; Pain; Analgesia; Copulation; Female sexual behavior; Pelvic nerve; Pudendal nerve; Mount; Intromission; Ejaculation (Gómora, P. (656) 52)

Hypoglossal
Central pattern generator; Medium-frequency oscillation; Bicuculline; Phrenic; Piglet (Steele, A.M. (650) 166)

Hypoglossal motoneuron
Control of breathing; Microdialysis; Pons; REM sleep; Serotonin; Sleep apnea syndrome; Upper airway (Kubin, L. (645) 291)

Hypoglossal nerve
Axotomy; Protein kinase C; Isozyme; Histochemistry; Vagus nerve (Yamada, E. (639) 341)

Hypoglycemia
Glutamate; Neurotoxicity; Excitotoxicity; Free radical; Lipid peroxidation; Stroke (Chow, H.S. (639) 102)

Agatoxin; Conotoxin; Glutamate; Hypoxia; Ischemia; *N*-Methyl-D-aspartate; Primary neuronal culture (Koretz, B. (643) 334)

ATP; Glucocorticoid; Hippocampus; Hypoxia; Neuron; Neuron death; Stress (Lawrence, M.S. (646) 303)

Hypoosmolality
Volume regulation; Glioma cell (Lohr, J.W. (667) 263)

Hypoosmolarity
Primary culture; Astrocyte; Cell volume; Peripheral-type benzodiazepine receptor (Itzhak, Y. (644) 221)

Hypoosmotic stress
Astrocyte; Calcium flux; Cellular calcium compartment; cAMD Dibutyryl; Volume regulation (Bender, A.S. (645) 27)

Hypophagia
Nerve growth factor; Hippocampus; Neurotrophin; Hypothalamus; Bombesin; Neuropeptide Y; Cholecystokinin; Brain-derived neurotrophic factor (Lapchak, P.A. (655) 12)

Hypotension
Kininase II; Lamina terminalis; Subfornical organ; Paraventricular hypothalamus; Water intake (Rowland, N.E. (654) 34)

Isoproterenol; Drinking; β-Adrenoceptor; Renin–angiotensin system (Kirby, R.F. (656) 79)

5-Carboxyamidotryptamine; Sodium appetite; Plasma renin activity; Fos-like immunoreactivity (Rowland, N.E. (664) 148)

2-Deoxyglucose; Rilmenidine; B-HT 933; Cerebral glucose utilization; Spontaneously hypertensive rat; Brainstem (Browne, S.E. (666) 216)

Autoregulation of cerebral blood flow; Cerebral blood volume; Cerebral microvessel; N^G-monomethyl-L-arginine; Nitric oxide; Photoelectric method; Vascular tone (Kobari, M. (667) 255)

Hypothalamic damage
Focal ischemia; Middle cerebral artery occlusion; Hyperthermia; Temperature control; Rat (Zhao, Q. (649) 253)

Hypothalamic graft
Suprochiasmatic nucleus; 2-Deoxyglucose study (Servière, J. (655) 168)

Hypothalamic lesion
Growth hormone; Aging; Adenylyl cyclase; G protein; Growth hormone-releasing hormone (Qing, Y. (644) 13)

Hypothalamic neuronal histamine
Feeding circadian rhythm; Reduction of circadian amplitude; Light–dark cycle; Histamine H_1 receptor; α-Fluoromethylhistidine; Thioperamide (Doi, T. (641) 311)

Hypothalamic paraventricular nucleus
Nausea; Oxytocin (Curtis, K.S. (663) 30)

Dihydroxyphenylalanine; Dihydroxyphenylacetic acid; Hemorrhage; 5-Hydroxyindoleacetic acid; Homovanillic acid; In vivo microdialysis; Noradrenaline (Morris, M.J. (665) 5)

Spontaneously hypertensive rat; Aging; Immobilization stress; Noradrenaline; Intracerebral microdialysis (Terrazzino, S. (668) 256)

Hypothalamic-pituitary-adrenal axis
Immediate-early gene; Psychotropic drug; Dopamine; Serotonin; DARPP-32; Nitric oxide synthase (Torres, G. (647) 1)

Interleukin-1 receptor; Adrenocorticotropic hormone; Corticosterone; Lipopolysaccharide; Mouse (Takao, T. (649) 265)

Food deprivation; Water deprivation; Paraventricular nucleus; Corticotropin-releasing hormone; Vasopressin; Receptor (Kiss, A. (663) 84)

Hypothalamic ventromedial nucleus
Estrogen; Intracerebral infusion; Lordosis; Midbrain central gray; Phorbol ester; Protein kinase C; Protein kinase C inhibitor; RU486; Tetradecanoyl phorbol acetate (Kow, L.-M. (660) 241)

Hypothalamo-pituitary-adrenal axis
Neuropeptide K; Steroidogenesis; Adrenal cortex; Adrenal medulla; Rat (Mazzocchi, G. (661) 91)

Hypothalamus
Excitatory amino acid; Corticotropin-releasing hormone; Vasopressin (Patchev, V.K. (633) 312)

Neurophysin; Somatic mutation; Neurohypophysis; Aging (Van Leeuwen, F.W. (635) 328)

Lordosis; Midbrain central gray; Estrogen (McCarthy, M.M. (636) 209)

Corticosteroid Type I receptor; Corticosteroid Type II receptor; Mineralocorticoid receptor; Hippocampus; Cortex; Cerebellum; Cortisol (Brooke, S.M. (637) 303)

Age; Circadian; Djungarian hamster; Immunocytochemistry; Neuropeptide; *Phodopus sungorus*; Rhythm; Photoperiod; Sex; Substance P; Suprachiasmatic nucleus (Reuss, S. (638) 189)

Aromatase; Cortex; Cell culture; Immunocytochemistry; Sex difference; Regional-specific morphology; BALB/c mouse (Beyer, C. (638) 203)

Glucose sensor; Glucose transporter; GLUT 2; Reverse transcription-polymerase chain reaction; Immunocytochemistry; Caudal hindbrain; Glucostatic theory (Leloup, C. (638) 221)

Histamine; MHPG; Norepinephrine; Medial zona incerta (Fleckenstein, A.E. (638) 243)

Autoradiography; Castration; Hamster; Oxytocin; Sex difference; Vasopressin (Dubois-Dauphin, M. (638) 267)

Parkinson's disease; Dopamine; Noradrenaline; Serotonin; Monoamine (Shannak, K. (639) 33)

Estrogen receptor; Ovulation; Luteinizing hormone; Electron microscopy (Langub Jr., M.C. (641) 303)

Defense reaction; Vigilance reaction; Baroreceptor reflex; Medulla; Rabbit (Duan, Y.-F. (643) 218)

1-Methyl-6,7-dihydroxy-1,2,3,4-tetrahydroisoquinoline; Salsolinol; Dopamine; Serotonin; Striatum; Substantia nigra; Hippocampus; Microdialysis (Nakahara, D. (644) 226)

NMDA; Adrenergic receptor; GnRH gene expression (Suh, J. (645) 36)

Prostaglandin; Fever; Fos; Pig (Vellucci, S.V. (646) 165)

Serotonin 5-HT_{1A} receptor; Glucose; Insulin; 8-Hydroxy-DPAT; Feeding (Jhanwar-Uniyal, M. (646) 247)

Steroid hormone; Estrogen receptor; Proto-oncogene; c-*fos* (Tetel, M.J. (646) 267)

Neuropeptide Y antibody; Osmotic pump; Immunoneutralization; Immunoglobulin G; Nocturnal feeding (Dube, M.G. (646) 341)

Proopiomelanocortin; β-Endorphin; γ_3-Melanocyte-stimulating hormone; Opioid antagonism; Naltrexone (Jaffe, S.B. (648) 24)

Endothelin; Gestation; Neurohypophysis; Oxytocin; Pregnancy (Horwitz, M.J. (648) 59)

β-Endorphin; Cell culture; Neuron; Adenylyl cyclase; Glucocorticoid (Yang, Z. (648) 99)

In vitro; Gonadotropin releasing hormone; Guinea pig; Veratridine; Tetrodotoxin; Calcium antagonist (Giri, M. (648) 270)

Brain slice; Electrotonic coupling; Intracellular injection; Lucifer yellow; Neurobiotin (Hatton, G.I. (650) 63)

NMDA; Glycine; Kynurenic acid; Strychnine; Norepinephrine; Superfusion (Johnson, D. (650) 70)

Neuropeptide-coexistence; Immunocytochemistry; Brainstem (Karagogeos, D. (650) 275)

Interleukin-2; Arginine vasopressin; Corticotropin-releasing hormone (Hillhouse, E.W. (650) 323)

Cholecystokinin; Immunohistochemistry; WGA-HRP; Neurohypophysis; Rat (Liu, S. (651) 7)

Neurotrophic factor; Suprachiasmatic nucleus; Astrocyte; Conditioned medium; Cultured neuron (Kawahara, F. (651) 101)

Interleukin-1; Glucocorticoid; Serotonin; Voltammetry, in vivo (Gemma, C. (651) 169)

Arcuate nucleus; Dopamine; Double-labeling; Electron microscopy; Galanin; Immunocytochemistry; Interaction; TIDA; Tyrosine hydroxylase (Hrabovszky, E. (652) 49)

Estradiol; β-Endorphin; 21-Aminosteroid; Free radical (Schipper, H.M. (652) 161)

Progesterone; RU486; Gonadotropin-releasing hormone mRNA (Cho, B.N. (652) 177)

Tachykinin; Testosterone; Neurokinin A; Neuropeptide Y; Median eminence; Arcuate nucleus (Kalra, P.S. (653) 285)

Arcuate nucleus; Immediate early gene product; Immunocytochemistry; c-Fos; Proto-oncogene (Hoffman, G.E. (654) 207)

Nerve growth factor; Hippocampus; Hypophagia; Neurotrophin; Bombesin; Neuropeptide Y; Cholecystokinin; Brain-derived neurotrophic factor (Lapchak, P.A. (655) 12)

Stress; Corticotropin releasing hormone; mRNA; Amygdala (Kalin, N.H. (656) 182)

Prader-(Labhart)-Willi; 7B2; Immunocytochemistry; Chromosome 15; Vasopressin-associated glycopeptide (Gabreëls, B.A.Th.F. (657) 281)

Adrenocorticotropin; Growth hormone; Monoamine; Neostigmine; Rat (Gotoh, M. (659) 259)

Prolactin; Gene expression; Polymerase chain reaction; Sleep; Vasoactive intestinal peptide; Pituitary adenylate cyclase-activating peptide (Bredow, S. (660) 301)

Cytokine; Tachykinin; Interleukin-1; Neurokinin A; Luteinising hormone; Castration (Kalra, P.S. (662) 178)

Morphine; Turnover; Norepinephrine; Dopamine; Preoptic area (Vathy, I. (662) 209)

Adrenaline; Dopamine; Estradiol; Luteinizing hormone; Luteinizing hormone-releasing hormone; Neuropeptide Y; Noradrenaline; Progesterone; Prolactin; Sexual differentiation (Crowley, W.R. (663) 257)

Corticosterone; Neuropeptide Y; Paraventricular nucleus; Arcuate nucleus; Neuropeptide Y receptor (Akabayashi, A. (665) 201)

c-*fos*; Neuropeptide Y; Feeding; Paraventricular nucleus (Li, B.-H. (665) 277)

Rat; α-Melanocyte-stimulating hormone; Glutamic acid; *N*-Methyl-D-aspartic acid; Nitric oxide (Wayman, C.P. (666) 201)

Anterograde neuronal tracing; Choleratoxin; Hamster; Suprachiasmatic nucleus; Nitric oxid synthase; NADPH-diaphorase; Retinohypothalamic tract (Decker, K. (666) 284)

Gastrin-releasing peptide; Satiety; Feeding; Push–pull perfusion; Central nervous system (Plamondon, H. (668) 54)

HPA axis; Morphine; Catecholamine; Reserpine; Adrenergic blocking drug (Martinez-Piñero, M.G. (668) 122)

Hypothalamus, human
Suprachiasmatic nucleus; Vasopressin neuron; Circadian rhythm; Biological clock; Aging (Hofman, M.A. (651) 134)

Hypothalamus-pituitary-adrenocortical axis
Clonidine; Naloxone-induced withdrawal (Gonzalvez, M.L. (647) 199)

Hypothermia
Thrombolytic therapy; Recombinant tissue plasminogen activator; Stroke; Rat; Cerebral blood flow; Hyperthermia; Cerebral ischemia (Meden, P. (647) 131)

Focal cerebral ischemia; Oxygen free radical; Ascorbate; Glutathione; Postischemic hyperperfusion; Delayed postischemic hypoperfusion (Karibe, H. (649) 12)

Forebrain ischemia; Glutamate release; Eicosanoid production (Patel, P.M. (650) 205)

Brain edema; Contusion; Cu,Zn-superoxide dismutase; Northern blotting; Specific gravity (Fukuhara, T. (657) 333)

Epibatidine; Nicotine; Antinociception; Drug discrimination; Locomotor activity (Damaj, M.I. (664) 34)

MK-801; N^G-Monomethyl-L-arginine; Δ^9-Tetrahydrocannabinol; Analgesia; Tolerance; Mouse (Thorat, S.N. (667) 77)

Hypothyroidism
Thyroid hormone; Thyroxine; Triiodothyronine; Hyperthyroidism; Tricyclic antidepressant; Desmethylimipramine; Deiodination (Gordon, J.T. (634) 96)

Hypotonicity
D-Aspartate; Rubidium; -SH group; Astrocyte; Regulatory volume decrease (Aschner, M. (648) 16)

Hypoxia
Cerebral blood flow; Cerebral glucose utilization; Rostral ventrolateral medulla; Rat (Underwood, M.D. (635) 217)

Cyanide; Protein kinase C; Arachidonic acid; Inward current; Reticulospinal sympathoexcitatory neuron; Rostral ventrolateral medulla (Sun, M.-K. (636) 245)

Astrocyte; Cerebral cortical neuron; Glutamate; Ischemia; Lactate dehydrogenase; Reperfusion (Sochocka, E. (638) 21)

c-Fos; Hippocampus; Cortex; Rat (Taniguchi, T. (640) 119)

Agatoxin; Conotoxin; Glutamate; Hypoglycemia; Ischemia; *N*-Methyl-D-aspartate; Primary neuronal culture (Koretz, B. (643) 334)

Magnesium; NMDA receptor; Brain; Piglet; MK-801; Na^+,K^+-ATPase (Hoffman, D.J. (644) 144)

Nitric oxide; Cyanide; NMDA receptor; Excitotoxicity; Transmitter release (Akira, T. (645) 285)

ATP; Glucocorticoid; Hippocampus; Hypoglycemia; Neuron; Neuron death; Stress (Lawrence, M.S. (646) 303)

σ Opioid site; 1,3-Di-(2-tolyl)guanidine (DTG); Carbon monoxide; NMDA; Amnesia model (Maurice, T. (647) 57)

Brain cell membrane; Lipid peroxidation; Xanthine oxidase; Uric acid; Energy metabolism; ^{31}P-NMR; Allopurinol (Marro, P.J. (650) 9)

Endothelial cell; Ischemia; Fructose-1,6-bisphosphate; Glutamate; MK-801 (Gobbel, G.T. (653) 23)

Brain; α-Tocopherol; Na^+,K^+-ATPase; Lipid peroxidation (Shin, S.M. (653) 45)

Adult cat; Carotid body; Cell culture; Defined medium; Dopamine; Immunohistochemistry; Tyrosine hydroxylase (Shirahata, M. (658) 60)

Adenosine; NMDA; Glutamate; Hippocampus; 1,3-Dipropyl-8-cyclopentylxanthine; Excitatory postsynaptic potential (Canhão, P. (661) 265)

Arterial chemoreceptor; Carotid body; Domperidone; Dopamine; Hyperoxia (Iturriaga, R. (663) 145)

Hypoxia / hypoglycemia
Dopamine release; Striatum; Vasopressin; Ischemia; Brain slice (Ochi, M. (633) 91)

Vasopressin; Hippocampus; Presynaptic potential; Ischemia (Tanaka, T. (644) 343)

Hypoxia-ischemia
Rat; Perinatology; Cerebral cortex; Glutamic acid decarboxylase; GABA; Epilepsy; Confocal laser scanning microscopy; Immunofluorescence (Romijn, H.J. (657) 245)

Hypoxic / ischemic injury
Neonatal; Developmental; Perinatal brain injury (Grafe, M.R. (653) 161)

2–6-Hz oscillation
Atropine sulfate; Autospectral analysis; Baroreceptor denervation; Decerebrate cat; Physostigmine; Urethane anesthesia (Orer, H.S. (661) 283)

I

Ibogaine
Harmaline; Tabernanthine; Coronaridine; Ibogamine; Desethylcoronaridine; Morphine; Cocaine; Drug self-administration (Glick, S.D. (657) 14)

Ibogamine
Ibogaine; Harmaline; Tabernanthine; Coronaridine; Desethylcoronaridine; Morphine; Cocaine; Drug self-administration (Glick, S.D. (657) 14)

Ibotenic acid
Colchicine; Nucleus basalis; Cholinergic hypofunction; Glutamic acid decarboxylase; Biogenic amine; Passive avoidance (Shaughnessy, L.W. (637) 15)

Ibuprofen
Spinal cord; NMDA; Nitric oxide; Hyperalgesia; Prostaglandin; MK-801; D,L-2-Amino-5-phosphonovaleric acid; L-NAME; Acetyl salicylic acid (Wiertelak, E.P. (664) 9)

ICAM-1
Microglia; Complement receptor; Complement; LFA-1; Blood–brain barrier (Akiyama, H. (635) 257)

Ictal
Epilepsy; Long-term potentiation; Long-term depression; Interictal; Seizure; Hippocampus; Potassium (Contzen, R. (653) 340)

Idazoxan
REM sleep; Brainstem; Carbachol; Norepinephrine (Bier, M.J. (634) 333)

Neonatal propranolol; In vivo dialysis; Noradrenaline overflow; Catecholamine metabolism; α_2-Autoreceptor (Van Veldhuizen, M.J.A. (646) 19)

Norepinephrine; Clonidine; Amygdala kindling; Kitten (Shouse, M.N. (648) 352)

Identified interneuron
Double labeling; Subesophageal ganglion; Homologous neuron; *Chorthippus mollis*; *Omocestus viridulus* (Lins, F. (635) 103)

Identified synapse
Helix; Homosynaptic depression; Opioid peptide; GABA; Naloxone; Synaptic transmission (Gutiérrez, R. (667) 243)

192 IgG-saporin
Acetylcholine; Basal forebrain; Cortex (Holley, L.A. (663) 277)

2-Iodomelatonin binding
Melatonin receptor; Chick; Visual system; Optic nerve transection; Autoradiography (Krause, D.N. (654) 63)

Imaging
Dementia; Alzheimer's disease; Nucelar magnetic resonance spectroscopy; *N*-Acetyl aspartate; Neurodegeneration (Kwo-On-Yuen, P.F. (667) 167)

IMHV
Nitric oxide; Domestic chick; Learning; Memory; Palaeostriatum augmentatum (Ambalavanar, R. (644) 160)

Iminodipropionitrile
Intermediate filament; Neurofilament; Neuropathology; Neuropathy; Visceral nerve (Ferri, G.-L. (657) 315)

Immature brain
Chronic hypoxia; Receptor; Regulation; Saxitoxin; Sodium channel (Xia, Y. (635) 339)

Immaturity
Brain; Mitochondrion; Rat; Redox (Vannucci, R.C. (653) 141)

Immediate early gene
Fenfluramine; Serotonin; Feeding behavior; Brain site; Fos; Jun (Li, B.-H. (640) 255)

Nerve injury; Dorsal horn; Rat; Primary sensory neuron; Plasticity; Spinal cord; Postsynaptic dorsal column pathway (Molander, C. (644) 74)

Angiotensin II; c-*fos*; Vasopressin; Oxytocin; Drinking behavior; Water ingestion; Gene suppression; Paraventricular nucleus; Supraoptic nucleus (Xu, Z. (659) 157)

Focal brain ischemia; c-fos mRNA; Oxygen-free radicals; Superoxide dismutase; Transgenic mouse (Kamii, H. (662) 240)

c-*fos*; Prefrontal cortex; Dopamine agonist; Intracerebral neural grafting; Transplantation; Embryonic ventral mesencephalon (Cenci, M.A. (665) 167)

Immediate-early gene
Psychotropic drug; Dopamine; Serotonin; DARPP-32; Nitric oxide synthase; Hypothalamic-pituitary-adrenal axis (Torres, G. (647) 1)

Immediate early gene expression
Retinohypothalamic tract; Photoperiodic perception; Circadian rhythm; Visual system (Vuillez, P. (654) 81)

c-*fos*; AP1 transcription factor; In situ hybridization; RT-PCR; Brain trauma (Yang, K. (664) 141)

Immediate early gene product
Arcuate nucleus; Hypothalamus; Immunocytochemistry; c-Fos; Proto-oncogene (Hoffman, G.E. (654) 207)

Immobilization stress
In vivo microdialysis; Noradrenaline release; Medial prefrontal cortex; Corticotropin-releasing factor (Shimizu, N. (654) 145)

Spontaneously hypertensive rat; Aging; Hypothalamic paraventricular nucleus; Noradrenaline; Intracerebral microdialysis (Terrazzino, S. (668) 256)

Immune
Microdialysis; Dopamine; Homovanilic acid; 5-Hydroxyindoleacetic acid (Lacosta, S. (664) 225)

Immune response
Brain neuromediator system; Pre- and postsynaptic receptor; Psychoneuroimmunomodulation (Devoino, L. (633) 267)

Thymectomy; Learning and memory; Monoamines; Choline acetyltransferase activity (Zhang, Y. (658) 127)

Immunity
Brain; δ-Opioid receptor; κ-Opioid receptor (Radulović, J. (661) 189)

Immunoblot
Hippocampus; Immunohistochemistry; Alzheimer's disease; Cytoskeleton; Microtubule (Geddes, J.W. (633) 1)

Immunoblotting
Programmed cell death; Protooncogene; Neuron; Glia; Tissue culture; Immunocytochemistry (Mizuguchi, M. (649) 197)

Immunocytochemistry
Neuro–glia interaction; Mutant mouse; Serotonin; Glial fibrillary acidic protein; High-performance liquid-chromatography (Ueda, S. (633) 275)

Aromatase enzyme; Musk shrew; Sexual behavior; Limbic region; Estrogen receptor; Septum; Amygdala (Dellovade, T.L. (634) 141)

Choline acetyltransferase; Propriospinal; Spinal cord; Retrograde transport; Rat (Sherriff, F.E. (634) 150)

Inositol 1,4,5-trisphosphate receptor; Ectopic Purkinje cell; Vestibular complex; Dorsal cochlear nucleus (Rodrigo, J. (634) 191)

Autoradiography; Transmitter uptake; Neuropeptide; Classical transmitter; Colocalization (Watt, C.B. (634) 317)

Rat brain; Lateral hypothalamus; Prolactin-like containing neuron; Bradykinin; Dynorphin B; Electron microscopy (Griffond, B. (635) 179)

Colocalization; In situ hybridization; Substantia nigra; Basal ganglia; Calretinin; Calbindin; Tyrosine hydroxylase (Heppelmann, B. (635) 293)

Proteoglycan; Heparan sulfate; Basic fibroblast growth factor; Tyrosine hydroxylase; Coexistence; Brain (Fuxe, K. (636) 131)

Glucocorticoid receptor; Neuropeptide; Spinal ganglion; Primary sensory neuron (DeLeón, M. (636) 338)

Dystrophic neurite; Tau; Paired helical filament; Argentophilia; Neuropathology; Alzheimer's disease (Su, J.H. (637) 37)

Intermediolateral nucleus; Glutamate; GABA; Spontaneously hypertensive rat; Rostral ventrolateral medulla; Caudal ventrolateral medulla; Cardioacceleration (Miura, M. (638) 139)

Age; Circadian; Djungarian hamster; Hypothalamus; Neuropeptide; *Phodopus sungorus*; Rhythm; Photoperiod; Sex; Substance P; Suprachiasmatic nucleus (Reuss, S. (638) 189)

Aromatase; Hypothalamus; Cortex; Cell culture; Sex difference; Regional-specific morphology; BALB/c mouse (Beyer, C. (638) 203)

Glucose sensor; Glucose transporter; GLUT 2; Reverse transcription-polymerase chain reaction; Hypothalamus; Caudal hindbrain; Glucostatic theory (Leloup, C. (638) 221)

Vomeronasal organ; Calbindin-D28k; Calcium binding protein; Neural; Neuroendocrine (Johnson, E.W. (638) 329)

Vasopressin; Cerebrospinal fluid; Median eminence; Pituitary gland; Neuroendocrine regulation (Cloft, H.J. (639) 233)

Substance P; Neurokinin A; Neurokinin B; Striate cortex (Gu, Q. (640) 336)

Glucocorticoid; Adrenalectomy; Calcitonin gene-related peptide; Substance P; Galanin; Somatostatin; Dorsal root ganglion (Coveñas, R. (640) 352)

Neurotrophin; Trigeminal; Primary afferent; Glomerulus; Ultrastructure (Henry, M.A. (642) 137)

Cerebral circulation; Cerebral cortex; Acetylcholine; Microvessels; Cerebral blood flow; Double immunofluorescence (Chédotal, A. (646) 181)

Vasopressin; Lateral septum; Ethanol; Withdrawal; Rat (Sousa, N. (648) 53)

Fos; Trigeminal spinal caudal subnucleus; Parabrachial nucleus; Fluoro-Gold; Double labeling; Formalin; Rat (Wang, L.G. (649) 62)

Programmed cell death; Protooncogene; Neuron; Glia; Tissue culture; Immunoblotting (Mizuguchi, M. (649) 197)

Human brain; Alzheimer's disease; Locus ceruleus aging (Van Zwieten, E.J. (649) 329)

Neuropeptide-coexistence; Hypothalamus; Brainstem (Karagogeos, D. (650) 275)

CREB; Transcription factor; Somatostatin; Neocortex; Development; In situ hybridization (Imaki, J. (651) 269)

Deafferentation; Optic nerve injury; Primate (Gutierrez, C. (651) 300)

Arcuate nucleus; Dopamine; Double-labeling; Electron microscopy; Galanin; Hypothalamus; Interaction; TIDA; Tyrosine hydroxylase (Hrabovszky, E. (652) 49)

Postmortem; GABA; Glycine; Glutamate; Taurine; Retina; Glia (Pow, D.V. (653) 199)

Aspartate; Electric fish; Electrosensory lateral line lobe; Glutamate; Immunogold (Wang, D. (653) 215)

Neuropeptide; FMRFamide; CNS; Sensory afferent; Chemoreception; Crustacean; Decapod (Schmidt, M. (653) 315)

Arcuate nucleus; Hypothalamus; Immediate early gene product; c-Fos; Proto-oncogene (Hoffman, G.E. (654) 207)

Protein phosphatase; Proline-directed protein kinase; Neurofibrillary tangle; Neuron; Alzheimer's disease (Pei, J.-J. (655) 70)

Epilepsy; GABA; Glia; Noradrenaline; Serotonin; Choline acetyltransferase; Cerebral cortex (Araneda, S. (655) 135)

Alzheimer's disease; Astrocyte; Cytoskeleton; Extracellular matrix; Huntington's disease; Parkinson's disease (DeWitt, D.A. (656) 205)

Electron microscopy; Monkey; Protein kinase C; Hippocampus; Subspecies; Presynapse (Saito, N. (656) 245)

Vasotocin; Preoptic region; Lateral septum; *Coturnix japonica*; Avian brain; Quantitative analysis (Viglietti-Panzica, C. (657) 171)

Prader-(Labhart)-Willi; 7B2; Hypothalamus; Chromosome 15; Vasopressin-associated glycopeptide (Gabreëls, B.A.Th.F. (657) 281)

Macaca mulatta; Protein kinase C; Retina; Lateral geniculate nucleus; Visual cortex; Subspecies (Fukuda, K. (658) 155)

Dorsal root ganglion; Nerve injury; *trkB*; Neurotrophin (Foster, E. (659) 267)

Graft; Astroglia; Brain injury; Metabolism; Glucose (Rosenstein, J.M. (659) 277)

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Immunoreactive cGMP
Immunoreactive cAMP; Carrageenan Inflammation; Dorsal horn; Hyperalgesia (Garry, M.G. (646) 135)

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Insulin-like growth factor II receptor
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Insulin receptor
Insulin-like substance; Fetal neuron cell culture; Peroxidase–antiperoxidase; In situ hybridization; Northern blot; High performance liquid chromatography; Radioimmunoassay; Western blot (Schechter, R. (636) 9)

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Intergeniculate leaflet
Activity; Circadian rhythm; Hamster; Nonphotic; Phase shift; Triazolam (Janik, D. (651) 174)

Circadian rhythm; Entrainment; Suprachiasmatic nucleus; Retinal ganglion cell (Moore, R.Y. (659) 249)

Interhemispheric asymmetry
Stress susceptibility; Imprinting-selected chick; Benzodiazepine/$GABA_A$ receptor (Salvatierra, N.A. (648) 39)

Interictal
Epilepsy; Long-term potentiation; Long-term depression; Ictal; Seizure; Hippocampus; Potassium (Contzen, R. (653) 340)

Interleukin
Adult human; Astrogliosis; Cytokine; Interferon; Proliferation; Tumor necrosis factor (Tejada-Berges, T. (653) 297)

Interleukin-1
Interleukin-6; Serotonin; Leech; Protein phosphorylation; Learning (Bottai, D. (641) 155)

Interleukin-2; Interleukin-6; Norepinephrine; Serotonin; Dopamine; Corticosterone (Zalcman, S. (643) 40)

Sickness behavior; Lipopolysaccharide; Opiate; Infection; Open field; Analgesia; Naltrexone; Fever; Rat (Yirmiya, R. (648) 80)

Glucocorticoid; Serotonin; Voltammetry, in vivo; Hypothalamus (Gemma, C. (651) 169)

Tumor necrosis factor; Nervous inhibition; Na-pump; Molluscan neuron (Mimura, Y. (653) 112)

Interleukin-1ra; Tumor necrosis factor; Soluble TNF receptor; Endotoxin; Hyperalgesia; Indomethacin; Systemic; Intracerebroventricular; Intrathecal; Gandolinium chloride; Kupffer cell (Watkins, L.R. (654) 15)

Cytokine; Tachykinin; Hypothalamus; Neurokinin A; Luteinising hormone; Castration (Kalra, P.S. (662) 178)

Interleukin-2
Interleukin-1; Interleukin-6; Norepinephrine; Serotonin; Dopamine; Corticosterone (Zalcman, S. (643) 40)

Arginine vasopressin; Corticotropin-releasing hormone; Hypothalamus (Hillhouse, E.W. (650) 323)

Interleukin-6
Human astrocyte culture; Trauma; Cytokine (Hariri, R.J. (636) 139)

Astrocyte; Interleukin-1β; Pituitary adenylate cyclase activating polypeptide; Vasoactive intestinal polypeptide (Gottschall, P.E. (637) 197)

Interleukin-1; Serotonin; Leech; Protein phosphorylation; Learning (Bottai, D. (641) 155)

Interleukin-1; Interleukin-2; Norepinephrine; Serotonin; Dopamine; Corticosterone (Zalcman, S. (643) 40)

Interleukin-1β; Tumor necrosis factor-α; GM-CSF; M-CSF; Astrocyte; Microglia (Mizuno, T. (656) 141)

Interleukin-10
Cytokine; Gene; Malignant glioma; Polymerase chain reaction (Nitta, T. (649) 122)

Interleukin-1β
Astrocyte; Interleukin-6; Pituitary adenylate cyclase activating polypeptide; Vasoactive intestinal polypeptide (Gottschall, P.E. (637) 197)

Adrenocorticotropin hormone; Corticotropin-releasing factor; Dopamine; NMDA receptor; Behavioral sensitization (Torres, G. (656) 33)

Interleukin-6; Tumor necrosis factor-α; GM-CSF; M-CSF; Astrocyte; Microglia (Mizuno, T. (656) 141)

Hyperalgesia; Wide dynamic range neuron; Interleukin-1 receptor antagonist; α-Melanocyte stimulating hormone; Prostaglandin E_2; Central nervous system; Pain (Oka, T. (656) 236)

Interleukin-1ra
Interleukin-1; Tumor necrosis factor; Soluble TNF receptor; Endotoxin; Hyperalgesia; Indomethacin; Systemic; Intracerebroventricular; Intrathecal; Gandolinium chloride; Kupffer cell (Watkins, L.R. (654) 15)

Interleukin-1 receptor
Adrenocorticotropic hormone; Corticosterone; Lipopolysaccharide; Hypothalamic-pituitary-adrenal axis; Mouse (Takao, T. (649) 265)

Corticotropin-relasing factor receptor; Stress; ACTH; HPA axis (Takao, T. (660) 170)

Interleukin-1 receptor antagonist
Interleukin-1β; Hyperalgesia; Wide dynamic range neuron; α-Melanocyte stimulating hormone; Prostaglandin E_2; Central nervous system; Pain (Oka, T. (656) 236)

Interleukin-2 receptor
Brain; Molecular cloning; Gene expression; In situ hybridization (Petitto, J.M. (650) 140)

Interleukin-6 mRNA
Interleukin-6 receptor mRNA; RT-PCR; Development; Central nervous system (Gadient, R.A. (637) 10)

Interleukin-6 receptor mRNA
Interleukin-6 mRNA; RT-PCR; Development; Central nervous system (Gadient, R.A. (637) 10)

Intermediate filament
Iminodipropionitrile; Neurofilament; Neuropathology; Neuropathy; Visceral nerve (Ferri, G.-L. (657) 315)

Intermediolateral cell column
Vasoconstrictor; Biocytin; Axon (Pilowsky, P. (656) 319)

Intermediolateral nucleus
Glutamate; GABA; Immunocytochemistry; Spontaneously hypertensive rat; Rostral ventrolateral medulla; Caudal ventrolateral medulla; Cardioacceleration (Miura, M. (638) 139)

Angiotensin binding; Spinal cord; Sympathetic nervous system; Dorsal root ganglion; Dorsal horn; Parasympathetic nervous system (Oldfield, B.J. (650) 40)

Interneuron
Serotonin; Spatial learning; Hippocampus; Dentate gyrus; Granule cell (Richter-Levin, G. (642) 111)

Parvalbumin; Reciprocal synapse; Olfactory bulb (Toida, K. (650) 347)

Theta rhythm; Cytokine; Recurrent inhibition; Septohippocampal; Acetylcholine (Steffensen, S.C. (652) 149)

Interposed nuclei
Mesodiencephalic junction; Inferior olive; GABA; Gold-lectin tracer; Electron microscopy (De Zeeuw, C.I. (653) 345)

Interstimulus interval
Tooth; Thermal stimulation; Inferior alveolar nerve; Human (Iwata, K. (635) 211)

Auditory cortex; Tonotopic; Event-related field; Neuromagnetism; Magnetic source imaging (Cansino, S. (663) 38)

Intra- and infrapyramidal mossy fiber
Hippocampus; Eight arm radial maze; Spatial learning; C57BL/6J mice; Inbred strain (Jamot, L. (644) 352)

Intracellular ATP
Integrin; Hydrogen peroxide; Cell attachment; Intracellular Ca^{2+}; PC12 cell (Zhang, Z. (662) 189)

Intracellular Ca^{2+}
Integrin; Hydrogen peroxide; Cell attachment; Intracellular ATP; PC12 cell (Zhang, Z. (662) 189)

Intracellular calcium
U73122; Phospholipase C; Bradykinin; NG108-15; Dorsal root ganglion neuron (Jin, W. (642) 237)

Fura-2; Brain slice; Stroke; Excitatory amino acid (Bickler, P.E. (665) 269)

Thyrotropin-releasing hormone; Neuromodulation; Resting K^+ conductance; Phorbol ester; Protein kinase C; IP_3; BAPTA; EGTA; Forskolin; Adenylate cyclase (Bayliss, D.A. (668) 220)

Intracellular calcium concentration
Glutamate; Fura-2; pH; Cortical neuron (Ou-Yang, Y.B. (646) 65)

Intracellular calcium mobilization
CCK_B receptor; C6 glioma cell; Binding study (Kaufmann, R. (639) 109)

Intracellular communication
Astrocyte; Calcium mobilization; Pituitary adenylate cyclase activating polypeptide; Second messenger (Tatsuno, I. (662) 1)

Intracellular electrophysiology
Rostral ventrolateral medulla; Tyrosine hydroxylase; Biocytin; Cardiovascular control; Respiratory control (Pilowsky, P. (633) 63)

Intracellular filling
Thalamus; Dendrite; Electrophysiology; Somatosensory system (Havton, L.A. (638) 126)

Thalamus; Dendrite; Electrophysiology; Somatosensory system (Havton, L.A. (651) 76)

Intracellular free Ca^{2+} concentration
Ischemia; Adrenal chromaffin cell; Catecholamine release; $^{45}Ca^{2+}$ uptake; ATP; Permeabilized cell (Itoh, A. (643) 266)

Intracellular free calcium
Mechanical brain injury; Anti-ischemic activity; Hippocampal slice; Fura-2; Oxygen–glucose deprivation (Honda, T. (666) 263)

Intracellular injection
Brain slice; Electrotonic coupling; Hypothalamus; Lucifer yellow; Neurobiotin (Hatton, G.I. (650) 63)

Intracellular labeling
Rat globus pallidus; Light microscopy (Kita, H. (636) 308)

Intracellular recording; Rostral ventrolateral medulla; PNMT-containing neuron; EPSP; Antidromic activation (Granata, A.R. (648) 299)

Intracellular pH
Inferior olive; Membrane potential oscillation (Bleasel, A.F. (639) 8)

ATP; Cyclic guanosine 3′5′-monophosphate; Energy metabolite; Lactate; Phosphocreatine; Rat brain; Spreading depression (Gault, L.M. (641) 176)

Brain; pH regulation; Extracellular pH; Hypercapnia; Extracellular electrolyte; Total tissue electrolyte (Katsura, K.-i. (651) 47)

Intracellular processing
Alzheimer's disease; β/A4 peptide; Amyloid precursor protein; Endosomal/lysosomal pathway (Tsuzuki, K. (659) 213)

Intracellular recording
Basal ganglia; Dopamine; Glutamate; Excitatory postsynaptic potential; Accumbens; Electrophysiology (O'Donnell, P. (634) 105)

Pontine respiratory group; Kölliker-Fuse nucleus; Neural control of respiration; In vivo; Cat (Dick, T.E. (636) 259)

Rostral ventrolateral medulla; PNMT-containing neuron; EPSP; Antidromic activation; Intracellular labeling (Granata, A.R. (648) 299)

Excitatory amino acid neurotransmitter; Neocortex; NMDA; Thyrotropin-releasing hormone; In vitro (Kasparov, S. (656) 229)

Substantia nigra; Guinea-pig (Hajós, M. (660) 216)

Bradykinin; Tetrodotoxin-resistant; Primary afferent neuron sensitization; Synaptic plasticity; Dorsal horn; Rat (Jeftinija, S. (665) 69)

Mammalian central neuron; Synaptic integration; White noise; Neocortex; Hippocampus; Thalamus; Purkinje cell; Brain slice; Slice culture (Jahnsen, H. (666) 9)

Intracellular recording and labeling
CA1 pyramidal cell; Kainate lesion; Neuronal structure; Neuronal reconstruction; Morphometry; Electrotonic modelling (Pyapali, G.K. (652) 279)

Intracellular recording, in vitro
Perirhinal cortex; Intrinsic property (Beggs, J.M. (665) 18)

Intracellular transport
Cerebellum; Microtubule; Neurofilament protein; Neuronal discharge; Electrophysiology; Electron microscopy (Seil, F.J. (636) 87)

Intracerebellar
(−)-Nicotine; (−)-Cotinine; Motor incoordination; Adenosine; Nicotinic cholinergic receptor; Behavioral interaction (Dar, M.S. (644) 117)

Intracerebral dialysis
NMDA; Dopamine; DOPAC; Homovanillic acid (Whitton, P.S. (635) 312)

Intracerebral infusion
Estrogen; Lordosis; Midbrain central gray; Phorbol ester; Protein kinase C; Protein kinase C inhibitor; RU486; Tetradecanoyl phorbol acetate; Hypothalamic ventromedial nucleus (Kow, L.-M. (660) 241)

Intracerebral injection
Fever; *Candida albicans*; Thermoregulation; Anterior hypothalamus; Fungus; Preoptic area; Temperature; Microinjection; Pyrogen contamination; Brain; Rat; Hyperthermia (Barwick, V.S. (635) 1)

Experimental epilepsy; Generalized seizure; Cholinergic system; Muscarinic receptor; Muscarinic M_1 receptor; Carbachol; Pirenzepine; Mecamylamine; Zona incerta; Rat (Cruickshank, J.W. (643) 125)

Intracerebral microdialysis
Condition; Brain; Rat; Acetaminophen; Atenolol; Pharmacokinetics; Blood–brain barrier (De Lange, E.C.M. (666) 1)

Spontaneously hypertensive rat; Aging; Immobilization stress; Hypothalamic paraventricular nucleus; Noradrenaline (Terrazzino, S. (668) 256)

Intracerebral neural grafting
Immediate early gene; c-*fos*; Prefrontal cortex; Dopamine agonist; Transplantation; Embryonic ventral mesencephalon (Cenci, M.A. (665) 167)

Intracerebral transplantation
Microdialysis; Parkinson's disease; Ventral tegmental area; Substantia nigra; Prefrontal cortex; Ventral striatum; Paw-reaching; Staircase test (Cenci, M.A. (641) 225)

Intracerebroventricular
Neuropeptide Y; Gastric acid; Noradrenaline (Geoghegan, J.G. (635) 118)

Angiotensin AT_1 receptor; Angiotensin AT_2 receptor; Angiotensin receptor subtype; Antagonist; Blood pressure; Drinking (Widdop, R.E. (648) 46)

Scratching; Grooming; NK-1 agonist; NK-2 agonist; Mouse; NK-1 receptor; Substance P; Septide (Ravard, S. (651) 199)

Interleukin-1; Interleukin-1ra; Tumor necrosis factor; Soluble TNF receptor; Endotoxin; Hyperalgesia; Indomethacin; Systemic; Intrathecal; Gandolinium chloride; Kupffer cell (Watkins, L.R. (654) 15)

Morphine; Morphine 6-glucuronide; Glucose; Catecholamine; Hormone; Rat (Molina, P.E. (664) 126)

Intracerebroventricular infusion
Brain temperature; Circadian rhythm; Glutamate; Oxidized glutathione; Paradoxical sleep; Sleep-promoting substance; Slow-wave sleep (Honda, K. (636) 253)

Intracortical
Multichannel recording; AI; Primary auditory cortex; Cognitive; Evoked potential; Auditory (Javitt, D.C. (667) 192)

Intracortical recording
Multielectrode array; Visual cortex; Electrode recording property; Neuroprosthetics; Neurophysiology (Nordhausen, C.T. (637) 27)

Intracranial pressure
Methylprednisolone; Pneumococcal meningitis; Bacterial meningitis; Cerebral blood flow; Brain edema (Koedel, U. (644) 25)

Intracranial self-stimulation
Amphetamine; Dopamine; Reward; Reinforcement; Nucleus accumbens; Caudate-putamen; Curve shift (Ranaldi, R. (642) 251)

Nucleus accumbens; Ventral pallidum; NMDA acid; Reward; Self-stimulation (Johnson, P.I. (646) 73)

Intralaminar thalamic nuclei
Dorsal lateral geniculate nucleus; Superior colliculus; Corticotectal projection; Thalamic reticular nucleus; Posterior thalamic complex; Lateral posterior nucleus (Deschênes, M. (664) 215)

Intranasal infection
Vesicular stomatitis virus; BALB/c mouse; Immunohistochemistry; Axonal transport; Accessory olfactory bulb; Amygdala–fugal pathway (Huneycutt, B.S. (635) 81)

Intraocular transplantation
Spinal cord graft; Skeletal muscle graft; Trophic effect (Trok, K. (659) 138)

Intrathecal
Aging; Tail flick test; Antinociception; Opioid receptor; Opiate agonist (Crisp, T. (643) 282)

Interleukin-1; Interleukin-1ra; Tumor necrosis factor; Soluble TNF receptor; Endotoxin; Hyperalgesia; Indomethacin; Systemic; Intracerebroventricular; Gandolinium chloride; Kupffer cell (Watkins, L.R. (654) 15)

Serotonin 5-HT_1 receptor; Nociception; Dorsal horn (Ali, Z. (661) 83)

Intrathecal administration
Parafascicular neuron; Nociceptive suppression; Norepinephrine; Serotonin; Naloxone; Atropine (Li, Y.-J. (666) 113)

Intrathecal drug application
Antinociception; P_2-purinoceptor antagonist; Rat tail-flick test; Rat formalin test; α,β-Methylene ATP; 2-Methylthio-ATP (Driessen, B. (666) 182)

Intrathecal injection
β-Endorphin; Opioid; DNA synthesis; Spinal cord; Development; Analgesia; Nociception (Bartolome, J.V. (642) 311)

Calcitonin gene-related peptide; $CGRP_{8-37}$; CGRP antagonist; CGRP receptor; Substance P; Hindpaw withdrawal latency (Yu, L.-C. (653) 223)

Intravital fluorescence microscopy
Extravasation; Blood–brain barrier; Histamine; Impromidine; 2-Pyridylethylamine (Schilling, L. (653) 289)

Intrinisic optical signal
Ca^{2+} wave; Glial channel; Voltage-sensitive channel; Retina; Spreading depression (Fernandes de Lima, V.M. (663) 77)

Intrinsic cholinergic innervation
Basal forebrain; Substantia innominata; Cortical blood flow; Cortical PO_2; Cortical PCO_2; Aging; Alzheimer's disease; Fischer 344 rat; Cerebral blood-flow regulation; Helium clearance; Physostigmine (Sercombe, R. (662) 155)

Intrinsic circuitry
Caudate nucleus; EPSP; IPSP; Cat (Wilson, J.S. (654) 41)

Intrinsic fiber
Baclofen; Piriform cortex; Laminar selectivity; Synaptic transmission; $GABA_B$ receptor (Tang, A.C. (659) 75)

Intrinsic property
Perirhinal cortex; Intracellular recording, in vitro (Beggs, J.M. (665) 18)

N^{ω}-Intro-L-arginine
Nitric oxide; Pentylenetetrazol; N^G-Methylarginine; Epilepsy; Rat (Osonoe, K. (663) 338)

Intromission
Nociception; Pain; Analgesia; Copulation; Female sexual behavior; Pelvic nerve; Pudendal nerve; Hypogastric nerve; Mount; Ejaculation (Gómora, P. (656) 52)

Invertebrate
Hair cell; Non-NMDA receptor; Transmitter; Modulator; Vestibular (Tu, Y. (642) 47)

Hermissenda; GABA; $GABA_B$; G protein; Pharmacology (Rogers, R.F. (650) 93)

Neuromodulation; Peptide; Second messenger; cAMP; Feeding; Buccal; cAMP-dependent protein kinase; Cotransmitter (Hooper, S.L. (657) 337)

Tachykinin-related peptide; Locustatachykinin; Substance P; Immunocytochemistry; *Helix pomatia* L.; Mollusc (Elekes, K. (661) 223)

Invertebrate photoreceptor potential
Light-sensitive K-channel; cGMP-activated K-channel (Gotow, T. (662) 268)

In vitro
Gonadotropin releasing hormone; Hypothalamus; Guinea pig; Veratridine; Tetrodotoxin; Calcium antagonist (Giri, M. (648) 270)

Excitatory amino acid neurotransmitter; Neocortex; NMDA; Thyrotropin-releasing hormone; Intracellular recording (Kasparov, S. (656) 229)

Retinal ganglion cell; Regeneration; Target; Neurotrophic factor; Retinal glia (Raju, T.R. (664) 247)

In vitro autoradiography
Subiculum; Adrenalectomy; OVTA (Liberzon, I. (650) 317)

In vitro release
Cholecystokinin; Spinal cord; Morphine; μ Opioid receptor; δ Opioid receptor; κ Opioid receptor (Benoliel, J.J. (653) 81)

Hippocampus; Neuropeptide Y; Rat; Seizure; Sprouting; Temporal lobe epilepsy (Vezzani, A. (660) 138)

In vitro slice
Somatic spine; Development; Synaptogenesis; Hippocampus; Dentate gyrus (Wenzel, J. (656) 127)

In vitro superfusion
Spontaneously hypertensive rat; Wistar–Kyoto rat; Electrolytic lesion; Substantia nigra; Caudate nucleus; Blood pressure; Dopamine (Linthorst, A.C.E. (639) 261)

In vivo
Pontine respiratory group; Kölliker-Fuse nucleus; Neural control of respiration; Intracellular recording; Cat (Dick, T.E. (636) 259)

NMDA antagonist; CPP; Commissural CA3; Long-term potentiation; Rat (Hernandez, R.V. (656) 215)

In vivo brain dialysis
Dopamine; DOPAC; Nucleus accumbens; Ventral tegmental area; Baclofen (Yoshida, M. (636) 111)

In vivo dialysis
Neonatal propranolol; Noradrenaline overflow; Catecholamine metabolism; α_2-Autoreceptor; Idazoxan (Van Veldhuizen, M.J.A. (646) 19)

In vivo microdialysis
Immobilization stress; Noradrenaline release; Medial prefrontal cortex; Corticotropin-releasing factor (Shimizu, N. (654) 145)

Cholecystokinin octapeptide; Cholecystokinin tetrapeptide; Nucleus accumbens; Caudate-putamen; Dopamine; DOPAC; Homovanillic acid; Rat (Kariya, K. (657) 1)

Striatum; Amantadine; Dopaminergic neuron; Re-uptake inhibition; *N*-Methyl-D-aspartate receptor (Mizoguchi, K. (662) 255)

Dihydroxyphenylalanine; Dihydroxyphenylacetic acid; Hemorrhage; 5-Hydroxyindoleacetic acid; Homovanillic acid; Hypothalamic paraventricular nucleus; Noradrenaline (Morris, M.J. (665) 5)

In vivo voltammetry
Dopamine; Glutamate analog; Nucleus accumbens; Spreading depression; Behavior; Rat (Svensson, L. (643) 155)

In vivo whole-cell recording
Frog optic tectum; Nystatin; Retinal ganglion cell; Retinotectal connection; Synapse (Nakagawa, H. (665) 319)

Inward current
Cyanide; Hypoxia; Protein kinase C; Arachidonic acid; Reticulospinal sympathoexcitatory neuron; Rostral ventrolateral medulla (Sun, M.-K. (636) 245)

Inward rectification
M-current; G-protein; Inhibitory postsynaptic potential; Patch-clamp; Autonomic nerve; Magnesium; Channel block (Kurenny, D.E. (658) 239)

Inward rectifier
QX-314; K^+ channel; Locus ceruleus; Noradrenergic; Opiate receptor (Alreja, M. (639) 320)

Iomazenil
Epilepsy; Kindling; Benzodiazepine receptor; Cerebral blood flow; Hexamethylpropylene amine oxime (Kurokawa, K. (642) 303)

Ion
Adenosine uptake; Astrocyte; BRL 34915; Ionophore; Omeprazole (Bender, A.S. (661) 1)

Ion homeostasis
Cerebral ischemia; Anoxic depolarization; Tetrodotoxin; Sodium channel; Isolated perfused rat brain (Xie, Y. (652) 216)

Ionic current
Pacemaker neuron; Conotoxin (Lev-Ram, V. (640) 48)

Ionomycin
Cerebellar neuron; *N,N*-Diethyldithiocarbamate; 2',7'-Dichlorofluorescin diacetate; Oxidative metabolism (Oyama, Y. (660) 158)

Ionophore
Adenosine uptake; Astrocyte; BRL 34915; Ion; Omeprazole (Bender, A.S. (661) 1)

Ion permeability
Blood–brain barrier; Transendothelial potential difference; Rat pial microvessel (Revest, P.A. (652) 76)

Ion substitution
Excitotoxicity; Granule cell culture; Calcium; Cell death (Dessi, F. (650) 49)

Iontophoresis
Norepinephrine; Visual cortex; Velocity selectivity; Orientation selectivity; Cat (McLean, J. (667) 83)

IP_3
Thyrotropin-releasing hormone; Neuromodulation; Resting K^+ conductance; Phorbol ester; Protein kinase C; BAPTA; EGTA; Intracellular calcium; Forskolin; Adenylate cyclase (Bayliss, D.A. (668) 220)

Ipsi- and contralateral stimulus responses
Zebra finch; Visually evoked potential; Visual wulst; Ectostriatum; Optic tectum; Cooling; Spreading depression (Engelage, J. (652) 17)

Ipsilateral abducens nucleus
Electrophysiology; Serotonin; Lateral vestibular nucleus; Polysynaptic neuron (Kishimoto, T. (644) 47)

IPSP
Caudate nucleus; Intrinsic circuitry; EPSP; Cat (Wilson, J.S. (654) 41)

Iron
Gomori glia; Peroxidase; Residual body; Autophagosome; Transformed mitochondrion (Brawer, J.R. (633) 9)

Neurotrophic factor; Transferrin; Hippocampus; Cerebellum; Myelin; Neurodevelopment (Dickinson, T.K. (635) 169)

Ferritin; Microglia; Cerebellum; Subarachnoidal hemorrhage; *Rinis communis* agglutinin (Ozawa, H. (651) 345)

Axonal transport; Basal ganglia; Ferritin; Manganese; Neurotoxicity; Transferrin; Parkinson's disease (Sloot, W.N. (657) 124)

Substantia nigra; Nigrostriatal degeneration; Dopamine (Oestreicher, E. (660) 8)

Iron-binding protein
Aluminum neurotoxicity; Alzheimer's disease; Neurodegenerative disorder; Lactoferrin; Transferrin (Leveugle, B. (650) 20)

Iron-catalyzed oxidation
Alzheimer's disease; Amyloid peptide; Calcium; Dichlorofluorescin; Free radical; Indomethacin; Lipoxygenase; Neurodegeneration (Goodman, Y. (654) 171)

Irradiation
Hippocampus; Mossy fiber; Synaptosome; Amino acid release; Glutamate decarboxylase (Taupin, P. (644) 313)

Irritant
Capsaicin; Proton; Chemosensitivity; Sensitization; Patch clamp; Somatosensory; Neuron (Martenson, M.E. (651) 143)

Ischemia
Hypoxia/hypoglycemia; Dopamine release; Striatum; Vasopressin; Brain slice (Ochi, M. (633) 91)

Brain; Infarction; Striatum; Cortex; Acidosis; Metabolism; Hyperglycemia (Kofke, W.A. (633) 171)

Astrocyte; Cerebral cortical neuron; Glutamate; Hypoxia; Lactate dehydrogenase; Reperfusion (Sochocka, E. (638) 21)

Acetylcholine; Delayed neuronal death; Microdialysis; Hippocampus; Gerbil (Ishimaru, H. (639) 66)

Adenosine; Excitatory amino acid; Hippocampus; Synaptic transmission (Kano, T. (641) 149)

Ca^{2+} influx; Acidosis; Brain; Rat (Kristián, T. (641) 295)

Brain; NMR spectroscopy; Energy metabolism; Acetyl-L-carnitine; Lactate; Rat (Aureli, T. (643) 92)

Excitotoxin; Nerve growth factor; Basic fibroblast growth factor; NMDA (Yamada, M. (643) 173)

Substantia nigra reticulata; GABA neuron; Glutamic acid decarboxylase mRNA (Saji, M. (643) 234)

Adrenal chromaffin cell; Catecholamine release; Intracellular free Ca^{2+} concentration; $^{45}Ca^{2+}$ uptake; ATP; Permeabilized cell (Itoh, A. (643) 266)

Agatoxin; Conotoxin; Glutamate; Hypoglycemia; Hypoxia; *N*-Methyl-D-aspartate; Primary neuronal culture (Koretz, B. (643) 334)

Vasopressin; Hippocampus; Presynaptic potential; Hypoxia/hypoglycemia (Tanaka, T. (644) 343)

Acetylcholine; Basal forebrain; Nerve growth factor; Neurodegeneration; Nucleus basalis of Meynert (Liberini, P. (648) 1)

NADPH diaphorase; Nitric oxide; Macrophage; Glial fibrillary acidic acidic protein; Immunohistochemistry (Endoh, M. (651) 92)

Connexin43; Astrocyte; Gap junction; Immunohistochemistry; Brain (Hossain, M.Z. (652) 311)

Cerebral cortex; Indomethacin; Glutamate; Adenosine (Phillis, J.W. (652) 353)

Endothelial cell; Hypoxia; Fructose-1,6-bisphosphate; Glutamate; MK-801 (Gobbel, G.T. (653) 23)

Glucocorticoid; Hippocampus; Cell culture; Cyanide; D-Aspartate (Chou, Y.-C. (654) 8)

Adenosine; Anoxia; Rat (Donaghy, K.M. (656) 174)

GABA immunoreactivity; Spinal cord; Dorsal horn neuron (Zhang, A.-L. (656) 187)

Afterdischarge; Excitatory amino acid; Hippocampus; Synaptic transmission (Miyazaki, S. (657) 325)

Hyperalgesia; Diazepam; Convergent neuron; Benzodiazepine; Reperfusion; Hyperexcitability (Cartmell, S.M. (659) 82)

1,3-Butanediol; Neuronal loss; Ketone body; Protection; Hippocampus; CA1 (Sims, N.R. (662) 216)

Sodium channel; Stroke; Histology; Neuroprotection; Rat (Weber, M.L. (664) 167)

Hippocampus; Dopamine; Presynaptic fiber spike; CA1; Neuroprotection (Yamamoto, Y. (665) 151)

Repetitive ischemia; GABA; Microdialysis; Substantia nigra reticulata; Delayed neuronal damage (Shuaib, A. (666) 99)

Gerbil; Hippocampus; CA2; Histamine; (*S*)α-Fluoromethylhistidine (Sugimoto, K. (666) 279)

Transcription factor; Activator protein-1; CA1 subfield; Vulnerability; Apoptosis (Yoneda, Y. (667) 54)

Ischemia-reperfusion
Platelet activating factor binding; Autoradiography; Brain; Immunoreactive PAF concentration (Domingo, M.T. (640) 268)

Ischemic damage
NMDA component; CA1 pyramidal neuron; Hippocampal slice; Stroke-prone spontaneously hypertensive rat; L-type Ca^{2+} channel blocker (Yasui, M. (642) 146)

Ischemic depolarization
Mongolian gerbil; Rat; Experimental ischemia; Hippocampal slice; Neuronal death; Anoxia (Stittsworth Jr., J.D. (649) 353)

Ischemic tolerance
Cerebral ischemia; Heat shock protein; HSP27; HSP70; αB crystallin; Rat; Immunohistochemistry; Enzyme immunoassay (Kato, H. (634) 235)

Cerebral ischemia; Hippocampus; NADPH-diaphorase; Nitric oxide synthase; Rat (Kato, H. (652) 71)

Cerebral ischemia; Astroglia; Microglia; Immunohistochemistry; Neuron–glia interaction; Hippocampus; Gerbil (Kato, H. (664) 69)

Isoflurane
Hippocampal slice; Glutamate release (Larsen, M. (663) 335)

Isolated perfused rat brain
Cerebral ischemia; Ion homeostasis; Anoxic depolarization; Tetrodotoxin; Sodium channel (Xie, Y. (652) 216)

Isoproterenol
Drinking; Hypotension; β-Adrenoceptor; Renin–angiotensin system (Kirby, R.F. (656) 79)

β-Adrenoceptor; Corticotropin-releasing factor; Cytokine; Dexamethasone; Forskolin; Glucocorticoid; Somatostatin (Takao, T. (656) 177)

Opioid antagonist; μ Opioid receptor; κ Opioid receptor; δ Opioid receptor; Drinking; Water intake (Glass, M.J. (657) 310)

Brain; Microcirculation; Forskolin; Norepinephrine; Vascular reactivity (Mayhan, W.G. (659) 208)

Isozyme
Axotomy; Protein kinase C; Histochemistry; Vagus nerve; Hypoglossal nerve (Yamada, E. (639) 341)

Isozyme regulation
Na^+,K^+-ATPase; Ethanol; Synaptosome; (Rat cerebral cortex) (Foley, T.D. (653) 167)

Isthmo-optic projection
Visual system; Retinopetal projection; Fish; Amphibian; Reptile (Malz, C.R. (661) 259)

IT15
Huntington's disease; In situ hybridization (Dure IV, L.S. (659) 33)

J

Japanese quail
Reproduction; Sexual behavior; Preoptic area; *Coturnix japonica*; Aromatase synthesis (Foidart, A. (657) 105)

Joint pain
Substance P; CP96,345; CP96,344; Spinal cord; Nociception; NK-1 receptor; Antibody microprobe (Neugebauer, V. (666) 207)

Jun
Fenfluramine; Serotonin; Feeding behavior; Brain site; Fos; Immediate early gene (Li, B.-H. (640) 255)

Junctional conductance
Carotid body; Glomus cell; Calcium spike; Intercellular coupling; Junctional current (Abudara, V. (664) 257)

Junctional current
Carotid body; Glomus cell; Calcium spike; Intercellular coupling; Junctional conductance (Abudara, V. (664) 257)

Junctional epithelium
Di-I; Retrograde axonal transport; Trigeminal nerve fiber; Epithelial permeability (Sugaya, A. (653) 330)

Juvenile-onset diabetes
Nigrostriatal neuron; Dopamine; Tyrosine; Tyrosine hydroxylase; Parkinson's disease; Psychosis; BB Wistar rat (Kono, T. (634) 155)

Juxtacellular recording
Prepotential; GABA; Somatosensory system; Input-output analysis; Information processing (Vahle-Hinz, C. (637) 139)

K

Kainate
NMDA; Excitatory amino acid; Stress; Glucose production; Glucose utilization; Catecholamine; Epinephrine; Glucagon; Insulin; Corticosterone; Rat (Molina, P.E. (634) 41)

N-Methyl-D-aspartate; Excitatory amino acid; Glucose production; Glucose utilization; Catecholamine; Glucagon; Corticosterone; Insulin; Rat (Yousef, K.A. (634) 131)

Electroencephalogram; Cerebral blood flow; Propagation; Limbic system; Hippocampus; Seizure (Goto, Y. (634) 203)

Fastigial nucleus; Blood pressure; Awake rat; Anesthesia; Heart rate; Microdialysis (Parry, T.J. (635) 27)

Goldfish; Excitatory amino acid; Glutamate; AMPA; CNQX; Autoradiography (Barnes, J.M. (637) 323)

Bicuculline methiodide; NMDA; Epileptogenesis; Oocyte; *Xenopus laevis* (Mußhoff, U. (639) 135)

Ventromedial nucleus of the hypothalamus; Running activity; Blood glucose; GABA; Norepinephrine (Narita, K. (642) 290)

Neurotoxicity; Protection; Convulsion; Neuronal damage; Zinc depletion (Pohle, W. (644) 297)

Status epilepticus; Hippocampus; Synaptoneurosome; Hippocampal slice; Glutamate metabotropic receptor; Carbachol (Mayat, E. (645) 186)

Opioid; Dependence; NMDA; AMPA; Spinal cord; Excitatory amino acid (Yukhananov, R.Yu. (646) 194)

NMDA; AMPA; Metabotropic; Decortication; Neostriatum (Wüllner, U. (647) 209)

Acetylcholine; Microdialysis; Hippocampus; Basal forebrain; Dual probe; Glutamate; Receptor; NMDA; Medial septum; Diagonal band; Septal stimulation (Moor, E. (648) 32)

Neurotoxicity; Calcium; Chronic depolarization; NMDA; Electrophysiology (Tymianski, M. (648) 291)

Neurotoxicity; Epilepsy; Kindling; Glutamate; Convulsion (Baran, H. (652) 195)

Neurotoxicity; Hippocampus; Spatial learning; Water maze; Rat (Gayoso, M.J. (653) 92)

Dopamine; Glutamate; Neuroprotection; Neurotoxicity; Primary culture; Striatum (Amano, T. (655) 61)

Frontal cortex; Temporal cortex; Glutamate; AMPA; Calcium binding protein; Parvalbumin; Glial fibrillary acidic protein (DeFelipe, J. (657) 150)

Microinjection; Nucleus parabrachialis; Respiration; Respiratory depression; After suppression; Naloxone (Hirano, T. (665) 54)

Globus pallidus; Subthalamic nucleus; Extracellular recording; NBQX; MK-801; AMPA; NMDA (Soltis, R.P. (666) 21)

N-Methyl-D-aspartate; Domoic acid; Homocysteic acid; Flupirtine; GABA immunoreactivity; Retina (Osborne, N.N. (667) 291)

Kainate binding
NMDA receptor; MK-801 binding; Proton; Multiplicity; Spermidine binding (Yoneda, Y. (636) 298)

Human motor cortex; Brainstem; Spinal cord; Non-NMDA receptor; Autoradiography; Excitotoxicity; Motor neuron disease (Shaw, P.J. (641) 39)

Human midbrain; Basal ganglia; NMDA receptor; Non-NMDA receptor; Autoradiography; MK-801 binding; Glycine binding; CNQX binding (Ball, E.F. (658) 209)

Kainate lesion
CA1 pyramidal cell; Intracellular recording and labeling; Neuronal structure; Neuronal reconstruction; Morphometry; Electrotonic modelling (Pyapali, G.K. (652) 279)

Kainate receptor
Motor neuron disease; Spinal cord; Motor cortex; AMPA receptor; Excitotoxicity; Non-NMDA receptor; Autoradiography (Shaw, P.J. (655) 186)

Excitotoxicity; NMDA receptor (Resink, A. (655) 222)

Rat basal forebrain; Muscarinic acetylcholine receptor; Glutamate receptor subtype; NMDA receptor; AMPA receptor; Autoradiography; In situ hybridization; GABA receptor; Benzodiazepine receptor (Roßner, S. (668) 85)

Kainate seizure
Dopamine; MPTP; Striatum; Motor expression (Bonuccelli, U. (657) 269)

Kainic acid
Kindling; Neuroprotection; Status epilepticus; Epilepsy; Hippocampus; Piriform cortex; Substantia nigra (Kelly, M.E. (634) 245)

Purine; Adenosine; Xanthine; 1,3-Dipropyl-8-cyclopentylxanthine; Neuroprotection; Neurodegeneration (Macgregor, D.G. (644) 339)

Muscimol; Seizure; Hippocampus; Hippocampal sclerosis (Araki, T. (653) 237)

Astrocyte; Calcium; Glutamate; Glial fibrillary acidic protein; Limbic seizure; Neurodegeneration; Neurotoxicity (Gramsbergen, J.-B.P. (667) 216)

Kainic neurotoxicity
Goldfish optic tectum; NMDA receptor; Torus longitudinalis; Excitatory input (Migani, P. (637) 313)

Kallikrein
Kallikrein–kinin system; Rat brain; Cerebral cortex; Neuron; Brainstem (Kizuki, K. (634) 305)

Kallikrein–kinin system
Kallikrein; Rat brain; Cerebral cortex; Neuron; Brainstem (Kizuki, K. (634) 305)

Kaolin
Immunohistochemistry; Factor XII; Polymerase chain reaction; Protamine (Yasuhara, O. (654) 234)

K-562 cell
α-Sialyl cholesterol; Schwann cell; Laminin; Vincristine; Taxol; Cisplatin; Rat (Konings, P.N.M. (654) 118)

K channel
σ Opioid receptor; NCB20 cell; Haloperidol; Naloxone; Remoxipride; Antipsychotic (Morio, Y. (637) 190)

K^+ channel
BK channel; Ketamine; Ca^{2+} activation; GH_3 cell; Charybdotoxin (Denson, D.D. (638) 61)

QX-314; Inward rectifier; Locus ceruleus; Noradrenergic; Opiate receptor (Alreja, M. (639) 320)

Circadian rhythm; Suprachiasmatic nucleus; Serotonin; Apamin; Charybdotoxin; Protein kinase A; cAMP (Prosser, R.A. (644) 67)

Glibenclamide; Tetraethylammonium bromide; Opioid receptor (Raffa, R.B. (650) 146)

Amnesia; Amyloid β-protein; Memory processing; Mouse; Peptide; Retention (Flood, J.F. (663) 271)

KCl
Glutamate; Forskolin (Sim, L.J. (653) 155)

Ketamine
Morphine; Analgesia; NMDA receptor; Opiate tolerance; MK-801; Dizocilpine; Phencyclidine; Dextrorphan; Neuroplasticity (Trujillo, K.A. (633) 178)

BK channel; Ca^{2+} activation; K^+ channel; GH_3 cell; Charybdotoxin (Denson, D.D. (638) 61)

Positron emission tomography; NMDA receptor; Dopamine D_2 receptor; Anesthesia; Striatum; Monkey (Onoe, H. (663) 191)

Ketanserin
Serotonin 5-HT_2 binding site; Suicide; Depression; Human post-mortem brain; Antidepressant drug (Lowther, S. (642) 281)

Ketanserine
Serotonin; Pinealocyte; Melatonin (Olcese, J. (643) 150)

Ketone body
Ischemia; 1,3-Butanediol; Neuronal loss; Protection; Hippocampus; CA1 (Sims, N.R. (662) 216)

Kindled seizure
Kindling; Epileptogenesis; Epilepsy; Seizure; Hippocampus; Limbic system (Lothman, E.W. (649) 71)

Kindling
Neuroprotection; Kainic acid; Status epilepticus; Epilepsy; Hippocampus; Piriform cortex; Substantia nigra (Kelly, M.E. (634) 245)

Transfer kindling; Epilepsy; Entorhinal cortex; Perforant path; Dentate gyrus; Neural plasticity (Spiller, A.E. (635) 130)

Transfer kindling; Epilepsy; Entorhinal cortex; Perforant path; Dentate gyrus; Neural plasticity (Spiller, A.E. (635) 139)

NBQX; AMPA receptor; Amygdala; Hippocampus; Antiepileptogenic effect; Anticonvulsant effect; Epilepsy (Namba, T. (638) 36)

Epilepsy; Estrous cycle; Estrogen; Progesterone; GABA; Antiepileptic drug; Drug resistance (Ebert, U. (638) 45)

Epilepsy; Benzodiazepine receptor; Cerebral blood flow; Iomazenil; Hexamethylpropylene amine oxime (Kurokawa, K. (642) 303)

Calcineurin; Rat brain; Hippocampus; Neocortex; Cyclosporin A; FK506; Immunosuppressant (Moia, L.J.M.P. (648) 337)

Kindled seizure; Epileptogenesis; Epilepsy; Seizure; Hippocampus; Limbic system (Lothman, E.W. (649) 71)

Thyrotropin-releasing hormone; Carbamazepine; Tolerance; Hippocampus; Entorhinal cortex; Pyriform cortex; Perirhinal cortex; mRNA; In situ hybridization (Rosen, J.B. (651) 252)

Kainate; Neurotoxicity; Epilepsy; Glutamate; Convulsion (Baran, H. (652) 195)

Status epilepticus; Neurophysiology; Chronic epileptogenicity; Perforant path; Dentate gyrus; Spontaneous generalized convulsion (Shirasaka, Y. (655) 33)

Protein kinase C subspecies; Epilepsy; Neuronal plasticity; Hippocampus; Hydroxylapatite column (Ono, M. (660) 27)

Kinetic constant
Blood–brain barrier glucose transporter; GLUT1 isoform; Quantitative immunogold electron microscopy; Luminal and abluminal membrane; Neonate; Suckling; Weanling and adult; Developmental upregulation; Cerebral blood flow; Permeability-surface area product (Cornford, E.M. (663) 7)

Kininase II
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Kitten
Norepinephrine; Clonidine; Idazoxan; Amygdala kindling (Shouse, M.N. (648) 352)

Knee joint
NADPH-diaphorase; Nitric oxide; Nitric oxide synthase; Inflammation; Nociception; Arthritis; Cat (Bscheidl, C. (668) 266)

Kölliker-Fuse nucleus
Pontine respiratory group; Neural control of respiration; Intracellular recording; In vivo; Cat (Dick, T.E. (636) 259)

Krabbe disease
Globoid cell leukodystrophy; Autoradiography; Demyelination; Peripheral nerve (Komiyama, A. (637) 106)

Kupffer cell
Interleukin-1; Interleukin-1ra; Tumor necrosis factor; Soluble TNF receptor; Endotoxin; Hyperalgesia; Indomethacin; Systemic; Intracerebroventricular; Intrathecal; Gandolinium chloride (Watkins, L.R. (654) 15)

Kynurenate
Head injury/pathology; Excitotoxicity; Neuroprotection; NMDA antagonist; Hippocampus (Hicks, R.R. (655) 91)

Kynurenic
Glycine; NMDA; Neurotransmitter; Hair cell; Afferent synapse; Semicircular canal; Inner ear (Soto, E. (633) 289)

Kynurenic acid
NMDA; Glycine; Strychnine; Norepinephrine; Hypothalamus; Superfusion (Johnson, D. (650) 70)

Caudal hypothalamus; Cobalt chloride; Excitatory amino acid; Rat; Respiration (Horn, E.M. (664) 25)

L

L364,718
Thermoregulation; CCK8 and ceruletide; PGE_1 fever; Central vs. peripheral effect; L365,260 (Szelényi, Z. (638) 69)

L365,260
Thermoregulation; CCK8 and ceruletide; PGE_1 fever; Central vs. peripheral effect; L364,718 (Szelényi, Z. (638) 69)

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L365-260
Cholecystokinin; Opioid; Heroin self-administration; Morphine drug discrimination; Devazepide; Dopamine; Haloperidol (Higgins, G.A. (640) 246)

L 365260
Spinal cord; Substance P; Cholecystokinin; Serotonin; Opiate; Excitatory amino acid; Hyperalgesia; CP96345; Methysergide; Norbinaltorphimine; Naltrexone (Watkins, L.R. (664) 17)

Labyrinth
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Lacrimal gland
Brain; Melanocortin; Neuropeptide receptor; α-Melanocyte-stimulating hormone; Adrenocorticotropic hormone; Melanoma; Rat (Tatro, J.B. (635) 148)

Lactate
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Ischemia; Brain; NMR spectroscopy; Energy metabolism; Acetyl-L-carnitine; Rat (Aureli, T. (643) 92)

NMR spectroscopy; NMDA receptor; MK-801; Brain metabolism; Glycolysis; Amino acid (Loubinoux, I. (643) 115)

Lactate dehydrogenase
Astrocyte; Cerebral cortical neuron; Glutamate; Hypoxia; Ischemia; Reperfusion (Sochocka, E. (638) 21)

Lactation
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Pituitary adenylate cyclase activating polypeptide; Tyrosine hydroxylase; Prolactin; Median eminence; Striatum; Ovariectomized; Dopamine (Arbogast, L.A. (655) 17)

Supraoptic nucleus; Paraventricular nucleus; c-*fos*; Hemorrhage; Water deprivation; Oxytocin; Vasopressin (Fénelon, V.S. (662) 165)

Lactic acidosis
Brain ischemia; Glucose-oxygen deprivation; Acidosis; CO_2 acidosis; Hippocampus; Population spike (Morimoto, Y. (654) 273)

Lactoferrin
Aluminum neurotoxicity; Alzheimer's disease; Neurodegenerative disorder; Iron-binding protein; Transferrin (Leveugle, B. (650) 20)

Laminar selectivity
Baclofen; Piriform cortex; Synaptic transmission; $GABA_B$ receptor; Intrinsic fiber (Tang, A.C. (659) 75)

Lamina terminalis
Dehydration; Fos; OVLT; Median preoptic area; Supraoptic (McKinley, M.J. (653) 305)

Kininase II; Subfornical organ; Paraventricular hypothalamus; Water intake; Hypotension (Rowland, N.E. (654) 34)

Lamina X
Central canal; Dorsal horn; Hyperalgesia; Pain (Traub, R.J. (668) 204)

Laminin
Adhesion molecule; Neurite growth (Rahemtulla, N. (642) 221)

Transplant; Olfactory bulb; Astrocyte; Ensheathing cell; Glia limitans (Doucette, R. (649) 334)

α-Sialyl cholesterol; Schwann cell; Vincristine; Taxol; Cisplatin; K-562 cell; Rat (Konings, P.N.M. (654) 118)

Biodegradable graft; Collagen; Fibronectin; Peripheral nerve regeneration (Tong, X.-j. (663) 155)

Lamprey
Locomotion; Excitatory amino acid; Command system; Central pattern generator (Hagevik, A. (636) 147)

Optical imaging; Calcium channel; Calcium Green-dextran; Fluorescence (McClellan, A.D. (663) 61)

Motor control; Reticulospinal projection (Wannier, T. (666) 275)

Laser–Doppler flowmetry
α-Chloralose; Halothane; Anesthesia; Cortical blood flow; CO_2 responsiveness (Bonvento, G. (665) 213)

Laser scanning confocal microscopy
Cytokine receptor; Human immunodeficiency virus; Nervous system; Phycoerythrin-conjugated (Masliah, E. (663) 1)

Latency
Pulse repetition rate; Minimum threshold; Recovery cycle (Chen, Q.-C. (654) 155)

Lateral dorsal thalamus
Hippocampus; Place cell; Spatial learning (Mizumori, S.J.Y. (644) 168)

Lateral geniculate nucleus
Visual cortex; Biocytin (McCart, R.J. (653) 351)

Macaca mulatta; Protein kinase C; Retina; Visual cortex; Immunocytochemistry; Subspecies (Fukuda, K. (658) 155)

Benzodiazepine; Locomotor activity; Neuropeptide Y; Suprachiasmatic nucleus (Wickland, C. (660) 293)

Lateral habenular nucleus
Lateral septum; Parental behavior; Testosterone; Vasopressin (Wang, Z. (650) 212)

Lateral hypothalamus
Rat brain; Prolactin-like containing neuron; Bradykinin; Dynorphin B; Immunocytochemistry; Electron microscopy (Griffond, B. (635) 179)

Opioid; Feeding (Papadouka, V. (639) 42)

Lateral parabrachial nucleus
2,5-Anhydro-D-mannitol; c-*fos*; Nucleus tractus solitarii; Food intake; Vagus nerve (Ritter, S. (646) 53)

Lateral posterior nucleus
Dorsal lateral geniculate nucleus; Superior colliculus; Corticotectal projection; Thalamic reticular nucleus; Posterior thalamic complex; Intralaminar thalamic nuclei (Deschênes, M. (664) 215)

Lateral septum
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Lateral habenular nucleus; Parental behavior; Testosterone; Vasopressin (Wang, Z. (650) 212)

Vasotocin; Preoptic region; *Coturnix japonica*; Avian brain; Immunocytochemistry; Quantitative analysis (Viglietti-Panzica, C. (657) 171)

Bed nucleus of stria terminalis; Cytochrome P450; Somatospiny neuron; Androgen (Jakab, R.L. (664) 85)

Lateral superior olivary nucleus
Vestibular efferent; Nerve injury; Immunohistochemistry (Ohno, K. (644) 135)

Lateral ventricular
Neuropeptide Y; Feeding; Drinking; Carbohydrate; Pattern of ingestion; Satiety; Sweet taste (Lynch, W.C. (636) 28)

Lateral vestibular nucleus
Electrophysiology; Serotonin; Ipsilateral abducens nucleus; Polysynaptic neuron (Kishimoto, T. (644) 47)

Late reflex response
Long-latency stretch reflex; Evoked cerebral potential; Limb stiffness; Servo-mechanism (Chequer, R.S. (641) 273)

Laterodorsal tegmental nucleus
Amino acid transmitter; Acetylcholine; Acoustic startle response; Caudal pontine reticular nucleus; Pedunculopontine tegmental nucleus; Microiontophoresis; Auditory stimulation (Kungel, M. (643) 29)

Laudanosine
Opioid receptor; Analgesia (Katz, Y. (646) 235)

Lead
Septo-hippocampal system; Development; Muscarinic cholinergic receptor; Cholineacetyltransferase; Perinatal exposure; Rat (Bielarczyk, H. (643) 211)

Leakage
Choline; β-Amyloid; Alzheimer's disease; Carrier; Acetylcholine; Brain; Neuron; PC12 cell (Galdzicki, Z. (646) 332)

Learning
Taste aversion conditioning; Nucleus of the solitary tract; Pontine parabrachial nucleus; c-Fos; Emetic drug (Swank, M.W. (636) 202)

Amphetamine; Medial septum; Radial maze; Memory; Sensitization; Drug–lesion interaction (Ennaceur, A. (636) 277)

Imprinting; Domestic chick; Electrophysiology; Spike frequency (Bradford, C.M. (640) 11)

Hippocampus; Asymmetry; Serotonin HT_{1A} receptor; 8-Hydroxy-DPAT; Locomotion; Memory; Anxiety (Belcheva, I. (640) 223)

Interleukin-1; Interleukin-6; Serotonin; Leech; Protein phosphorylation (Bottai, D. (641) 155)

Nitric oxide; Domestic chick; Memory; IMHV; Palaeostriatum augmentatum (Ambalavanar, R. (644) 160)

Estrogen; High-affinity choline uptake; Choline acetyltransferase; Memory; Cytoprotection (Singh, M. (644) 305)

Acetylcholine; Nicotine; Aging; Alzheimer's disease; Nicotinic receptor; Nictitating membrane; Cognition enhancing (Woodruff-Pak, D.S. (645) 309)

Memory; Inferotemporal cortex; Monkey; Visual memory; Extrastriate cortex; Area TE (Sobotka, S. (646) 95)

Memory; Corticosterone; RU 28318; RU 38486; Glucocorticoid receptor; Mineralocorticoid receptor; Chick (Sandi, C. (647) 106)

Memory; Permanent occlusion of bilateral common carotid arteries; Radial maze; Rat (Ni, J.-w. (653) 231)

Aging; Stress; Hippocampus; Memory; Radial maze; Water maze; Morphometry (Arbel, I. (657) 227)

Amygdala; Central nucleus; Basolateral complex; Lidocaine; Inhibitory avoidance; Memory; Retention (Parent, M.B. (661) 97)

Startle; Prepulse inhibition; Prepulse facilitation; Rat (Reijmers, L.G.J.E. (661) 174)

Learning and memory
Genetics; Transgenic mouse (Paylor, R. (651) 275)

Thymectomy; Immune response; Monoamines; Choline acetyltransferase activity (Zhang, Y. (658) 127)

Vasopressin; Hippocampus; Calcium; Inositol trisphosphate; Vasopressin V_1 receptor; Neural peptide; Nerve cell growth (Brinton, R.D. (661) 274)

Learning vs. performance
Serotonin 5-HT_{1A} receptor; Nicotinic cholinergic receptor; 8-Hydroxy-DPAT; Mecamylamine; Morris water maze (Riekkinen, M. (649) 174)

Lectin
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Lectin binding
Mongolian gerbil; Rat; Parvalbumin; Cerebral cortex (Brückner, G. (658) 67)

Leech
Interleukin-1; Interleukin-6; Serotonin; Protein phosphorylation; Learning (Bottai, D. (641) 155)

Hydrogen ion; pH_i regulation; Alkalosis; Glial cell (Szatkowski, M.S. (665) 1)

Excitatory amino acid; Glutamate; Glutamate antagonist; Glial cell; Retzius neurone (Dörner, R. (665) 47)

Leech neuron
Okadaic acid; Calyculin A; Serine-threonine phosphatose; Calcium imaging; Neuromodulation (Kleinhaus, A.L. (650) 326)

Lesion
Renin; Noradrenergic; Fenfluramine; 6-Hydroxydopamine; Yohimbine (Van de Kar, L.D. (634) 77)

Pretectal area; Torus semicircularis; Tectum; Neuropeptide Y; Frog (Kozicz, T. (635) 345)

Stimulation-induced feeding; Ventral tegmental area; Facilitation; Contralateral effect; Rat (Trojniar, W. (641) 333)

Accessory olfactory bulb; Lordosis; Mating behavior; Immunohistochemistry; *c-fos*; Female rat; Accessory olfactory system (Dudley, C.A. (642) 29)

Nicotine; Methylcarbamylcholine; *N*-Propylnorapomorphine; Protection; Neostriatum; Dopamine (Janson, A.M. (655) 25)

Long-term potentiation; Hippocampus; Basolateral amygdala; Amygdalo-hippocampal interaction (Ikegaya, Y. (656) 157)

Electrical stimulation; γ-Hydroxybutyrate; DOPAC; Dopamine (Eaton, M.J. (659) 201)

Milnacipran; Paroxetine; Antidepressant-binding sites; Serotonin transporter; Autoradiography; 5,7-Dihydroxytryptamine (Barone, P. (668) 129)

Lesion mapping
Striatopallidal; Globus pallidus; Ventral pallidum; Hyperkinesia; Quinolinic acid (Cromwell, H.C. (668) 16)

Lethality
Transgenic mouse; Superoxide dismutase; Methylenedioxyamphetamine; Methylenedioxymethamphetamine; Free radical (Cadet, J.L. (655) 259)

Leucine-enkephalin
Radioimmunoassay; Radioenzymatic assay; Wobbler mouse motoneuron disease; Cervical spinal cord; Acetylcholinesterase; Choline acetyltransferase; Thyrotropin-releasing hormone; Substance P; Methionine-enkephalin (Yung, K.K.L. (638) 337)

Leucine^5-enkephalin
Shell; Core; Choline acetyltransferase; Opioid peptide; Silver-enhanced gold; Silver-intensified gold; Ventral striatum (Meredith, G.E. (667) 67)

Leukotriene
Excitotoxin; Neuroprotection; Lipid metabolism; Prostaglandin; Free radical (Baran, H. (646) 201)

21-Aminosteroid; Tirilazad mesylate; Prostaglandin (Andrus, P.K. (659) 126)

Leupeptin
Neuron; Lysosome; Dense bodies; Protease inhibitor; Amyloid precursor protein; Alzheimer's disease (Hajimohammadreza, I. (640) 25)

Levcromakalim
Rat; Aprikalim; Nitroglycerin; Endothelium-derived hyperpolarizing factor (Mayhan, W.G. (636) 35)

Lewy body
Parkinson's disease; Synaptophysin; Chromogranin A; Immunohistochemistry; Immuno-electron microscopy (Nishimura, M. (634) 339)

Substantia nigra; Nucleolar volume; Morphometry; Parkinson's disease (Gertz, H.-J. (637) 339)

Lewy body disease
Synapse protein; Alzheimer's disease; Hippocampal-entorhinal formation; Neuritic plaque; Confocal laser-scanning microscopy (Wakabayashi, K. (667) 24)

LFA-1
Microglia; Complement receptor; Complement; ICAM-1; Blood–brain barrier (Akiyama, H. (635) 257)

L929 fibroblast
Nerve growth factor; Nerve growth factor mRNA; Neurotrophin; Alzheimer's disease (Saporito, M.S. (633) 189)

LH
2-Deoxyglucose; Hyperglycemia; Microwave irradiation; Microdissection; VMH; PVN; Acetylcholine; Norepinephrine (Takahashi, A. (665) 13)

Licking
Salivation; Taste; Chorda tympani; Grooming; Conditioned taste aversion; Freely moving rat (Matsuo, R. (649) 136)

Lidocaine
Antinociception; Periaqueductal gray; Rostral ventromedial medulla; Morphine; Descending inhibitory pathway (Urban, M.O. (652) 9)

Amygdala; Central nucleus; Basolateral complex; Inhibitory avoidance; Learning; Memory; Retention (Parent, M.B. (661) 97)

Ligand-gated ion channel
Glutamate receptor; AMPA receptor; Baculovirus; AMPA-selective glutamate receptor α_2 subunit; *Spodoptera frugiperda* insect cell; *Autographa californica* nuclear polyhedrosis virus; *N*-Glycosylation (Hattori, S. (666) 43)

Light
Suprachiasmatic nucleus; Serotonin; 8-Hydroxy-DPAT; Buspirone; NAN-190; Tryptophan; Fos; Circadian rhythm; Hamster (Glass, J.D. (638) 235)

Gastrin releasing peptide; Peptide histidine isoleucine; Phase–response curve; Circadian pacemaker; Entrainment (Peters, R.V. (639) 217)

Serotonin; Suprachiasmatic nucleus; Entrainment; Circadian; DPAT; Metergoline; 5-CT; NAN-190; SDZ 216-525; Propranolol; 5-HT_{1A} receptor (Ying, S.-W. (651) 37)

Light adaptation
Enkephalin; Dopamine; Retina; Chicken; Amacrine (Boelen, M.K. (645) 240)

Retina; Horizontal cell; Dark adaptation; Rod; Electrical coupling; Cone (Mangel, S.C. (659) 55)

Light / dark
Dopamine; Retina; Mouse; Retinal dystrophy (Nir, I. (649) 85)

Light-dark cycle
Melatonin receptor; Pars tuberalis; Suprachiasmatic nucleus; Pinealectomy; Constant darkness; Desensitization (Gauer, F. (641) 92)

Light–dark cycle
Hypothalamic neuronal histamine; Feeding circadian rhythm; Reduction of circadian amplitude; Histamine H_1 receptor; α-Fluoromethylhistidine; Thioperamide (Doi, T. (641) 311)

Light microscopy
Rat globus pallidus; Intracellular labeling (Kita, H. (636) 308)

Rat; Cortico-nigral projection; Anterograde tracing; Biotinylated dextran amine; Prefrontal cortex; Substantia nigra (Naito, A. (637) 317)

Rat globus pallidus; Parvalbumin; Glutamate decarboxylase; Immunohistochemistry; Electron microscopy; Morphological analysis (Kita, H. (657) 31)

Light-sensitive K-channel
Invertebrate photoreceptor potential; cGMP-activated K-channel (Gotow, T. (662) 268)

Lignocaine
Temporary deafness; Protection; Compound action potential audiogram; Olivocochlear efferent; Cochlear destruction (Robertson, D. (646) 37)

Limbic cortex
Brain; Hippocampus; Transcription factor; Regulatory protein; c-*fos*; c-*jun*; Seizure; Metrazole; CREB; Sensory cortex; Cerebellum; Gel-shift; EMSA; Supershift (Łukasiuk, K. (643) 227)

Limbic region
Aromatase enzyme; Musk shrew; Immunocytochemistry; Sexual behavior; Estrogen receptor; Septum; Amygdala (Dellovade, T.L. (634) 141)

Limbic seizure
Area tempestas; Epilepsy; GABA; Glutamate; Entorhinal cortex; Perirhinal cortex; Piriform cortex (Halonen, T. (652) 145)

Status epilepticus; Heat shock protein; Cell death; Epileptic cell death; NMDA; Substantia nigra; Epilepsy (Tanaka, K. (660) 192)

Epilepsy; Animal model; Ontogeny (Bertram, E.H. (661) 157)

Astrocyte; Calcium; Glutamate; Glial fibrillary acidic protein; Kainic acid; Neurodegeneration; Neurotoxicity (Gramsbergen, J.-B.P. (667) 216)

Limbic system
Electroencephalogram; Cerebral blood flow; Propagation; Kainate; Hippocampus; Seizure (Goto, Y. (634) 203)

Frontal cortex; Chronic pain; Cold pressor; Analgesia (Backonja, M. (639) 337)

Cell adhesion; Immunoglobulin superfamily; Pain pathway; Basal ganglia; Circumventricular organ; Cerebral cortex; Development; Monoclonal antibody (Peduzzi, J.D. (640) 296)

Local cerebral glucose utilization; Glucocorticoid (Doyle, P. (645) 225)

Alzheimer's disease; Striatum; Tangle; Plaque; Ventral striatum (Selden, N. (648) 327)

Norepinephrine; Depression; Wistar–Kyotot rat; Stress; Animal model (Tejani-Butt, S.M. (649) 27)

Kindling; Kindled seizure; Epileptogenesis; Epilepsy; Seizure; Hippocampus (Lothman, E.W. (649) 71)

Cellular expression; Basal ganglia; Antipeptide antisera (Ariano, M.A. (649) 95)

2-Deoxyglucose method; Cerebral glucose utilization; Adrenalectomy; Corticosterone (Doyle, P. (655) 115)

Glucagon receptor; Energy balance; Central motor system; Duck (Montaron, A. (663) 121)

Glucose utilization; 2-Deoxyglucose; Morphine; Pain; Footshock; Analgesia (Gescuk, B. (663) 303)

Amygdala; Catecholaminergic cell group; A1 noradrenergic neurons; Cardiovascular reflex pathway (Ciriello, J. (663) 346)

Limb stiffness
Long-latency stretch reflex; Evoked cerebral potential; Servo-mechanism; Late reflex response (Chequer, R.S. (641) 273)

Lindane
Cl^- current; Dorsal root ganglion neuron; Frog; $GABA_A$ receptor; Insecticide; Subtype (Tokutomi, N. (643) 66)

Lipid
Olfactory bulbar response; Fatty acid; Phosphatidylserine; Turtle; Odor reception (Taniguchi, M. (647) 10)

Nucleus of the solitary tract; Fos-like immunoreactivity; Immunocytochemistry; Small intestine; Carbohydrate (Zittel, T.T. (663) 266)

Lipid metabolism
Excitotoxin; Neuroprotection; Prostaglandin; Leukotriene; Free radical (Baran, H. (646) 201)

Lipid peroxidation
Glutamate; Neurotoxicity; Excitotoxicity; Free radical; Stroke; Hypoglycemia (Chow, H.S. (639) 102)

Cerebral palsy; Fever; O2A progenitor; White matter (Juurlink, B.H.J. (641) 353)

Focal cerebral infarction; Neurologic deficit; Tirilazad mesylate; Neuroprotection; Penumbra (Park, C.K. (645) 157)

Aging; Dementia; Free radical; Human brain; Oxidative stress (Palmer, A.M. (645) 338)

6-Hydroxydopamine; Thiobarbituric acid-reacting substance; Superoxide dismutase; Cu/Zn-SOD mRNA (Ogawa, N. (646) 337)

Hypoxia; Brain cell membrane; Xanthine oxidase; Uric acid; Energy metabolism; ^{31}P-NMR; Allopurinol (Marro, P.J. (650) 9)

Brain; Hypoxia; α-Tocopherol; Na^+,K^+-ATPase (Shin, S.M. (653) 45)

Nitric oxide; Peroxynitrite; Trolox; Mitochondrion (Heales, S.J.R. (668) 243)

Lipocortin
Scrapie; Cytokine; Prostaglandin; Astrocyte; Mouse; Neurodegeneration (Williams, A.E. (654) 200)

Lipofuscin
α-Tocopherol; Free radical; Aging; Brain; Rat (Monji, A. (634) 62)

Lysosomal hydrolase; Neurodegenerative disease; Amyloid; Senile plaque; Aging (Cataldo, A.M. (640) 68)

Lipopolysaccharide
Hyperalgesia; Dorsolateral funiculus; Nucleus raphe magnus; Nucleus reticularis paragigantocellularis; Vagal afferent; Liver; Spinal cord (Watkins, L.R. (639) 283)

Von Willebrand factor; Hypertension; Endothelial cell; Stroke; Monocyte (McCarron, R.M. (647) 265)

Sickness behavior; Opiate; Interleukin-1; Infection; Open field; Analgesia; Naltrexone; Fever; Rat (Yirmiya, R. (648) 80)

Interleukin-1 receptor; Adrenocorticotropic hormone; Corticosterone; Hypothalamic-pituitary-adrenal axis; Mouse (Takao, T. (649) 265)

Brain inflammation; Glial activation; Macrophage; Major histocompatibility complex antigen; Natural killer cell; Brain-derived neurotrophic factor (Montero-Menei, C.N. (653) 101)

Lipoprivation
c-*fos*; Vagus nerve; Glucoprivation; Glucoreceptor; 2-Deoxy-D-glucose; 2-Mercaptoacetate; Rat brain (Ritter, S. (641) 111)

Lipoxygenase
Alzheimer's disease; Amyloid peptide; Calcium; Dichlorofluorescin; Free radical; Indomethacin; Iron-catalyzed oxidation; Neurodegeneration (Goodman, Y. (654) 171)

Lithium
Polyamine; Ornithine decarboxylase; Putrescine; Spermidine; Spermine; Dexamethasone; Brain; Rat (Gilad, G.M. (636) 187)

G protein; Calpain; Signal transduction (Greenwood, A.F. (636) 320)

Hair cell; Sacculus; Cholinergic receptor; Inositol trisphosphate; Heparin (Yoshida, N. (644) 90)

Pilocarpine; Seizure-induced damage; Diencephalon; Telencephalon; Rat brain damage (Bureau, Y.R.J. (648) 265)

Liver
Hyperalgesia; Dorsolateral funiculus; Nucleus raphe magnus; Nucleus reticularis paragigantocellularis; Vagal afferent; Spinal cord; Lipopolysaccharide (Watkins, L.R. (639) 283)

Lizard
GABA; Parvalbumin; Development; Cerebral cortex (Martínez-Guijarro, F.J. (634) 168)

GABA; Parvalbumin; Cerebral cortex (Blasco-Ibáñez, J.M. (652) 334)

Gonadotropin-releasing hormone; Immunohistochemistry; Brain; Ontogenesis (D'Aniello, B. (657) 221)

L-name HCl
L-Arginine; Nitric oxide; Food intake; Chick (Choi, Y.-H. (654) 163)

Lobster
Olfaction; Adaptation; Chemoreception; Transduction; *Panulirus* (Daniel, P.C. (643) 136)

Local cerebral blood flow
Local cerebral glucose utilization; N^G-Nitro-L-arginine methyl ester; Hypertension; Autoregulation; Sympathectomy (Kelly, P.A.T. (639) 309)

Amphetamine abuse; Methylenedioxymethamphetamine; Cerebrovascular control; Cerebrovascular accident (Kelly, P.A.T. (665) 315)

Local cerebral glucose utilization
Local cerebral blood flow; N^G-Nitro-L-arginine methyl ester; Hypertension; Autoregulation; Sympathectomy (Kelly, P.A.T. (639) 309)

Glucocorticoid; Limbic system (Doyle, P. (645) 225)

Local circuit neuron
Nitric oxide; NADPH-diaphorase; Cerebral cortex (Fischer, H.C. (654) 105)

Localization
D-Amino acid oxidase; Astrocyte; Glia; Rat brain; Central nervous system; Regional differentiation of astrocytes (Horiike, K. (652) 297)

Locomotion
Excitatory amino acid; Lamprey; Command system; Central pattern generator (Hagevik, A. (636) 147)

Amphetamine; Conditioned place preference; Mesencephalic locomotor region; Morphine; Pedunculopontine tegmental nucleus; Rat; Reinforcement (Olmstead, M.C. (638) 29)

Hippocampus; Asymmetry; Serotonin HT_{1A} receptor; 8-Hydroxy-DPAT; Learning; Memory; Anxiety (Belcheva, I. (640) 223)

Amphetamine; Sensitization; NMDA; Nitric oxide synthase (Stewart, J. (641) 141)

Individual difference; Conditioning; Amphetamine-induced hyperlocomotion; Sensitization; Drug abuse; Amphetamine (Jodogne, C. (657) 236)

Catalepsy; Opiate; PPTg; Brainstem (Olmstead, M.C. (662) 134)

Neurotensin; Dopamine; Methamphetamine; Schizophrenia; SR 48692; Nucleus accumbens (Wagstaff, J.D. (665) 237)

Amphetamine; Microdialysis; Nucleus accumbens; Stimulant; Inbred rats strain; Stereotyped behavior; Sensitization; Pharmacokinetics (Camp, D.M. (668) 180)

Locomotor activity
Autonomic nervous system; Anxiety; Acoustic startle response; Elevated plus-maze; Social interaction; Stress (Inglefield, J.R. (633) 151)

Circadian rhythm; Arousal; Aging (Penev, P.D. (637) 255)

Addiction; Sensitization; Social isolation; Corticosterone; Morphine (Deroche, V. (640) 136)

Dopamine D_1 receptor agonist; Dopamine D_1 receptor priming; Habituation; Neonatal 6-OHDA-lesioned rat (Moy, S.S. (645) 49)

Chronic social stress; Amphetamine self-administration (Lemaire, V. (649) 348)

Ethanol; Adenosine receptor; Calcium channel; Caffeine; Dihydropyridine (Daly, J.W. (650) 153)

MK-801; Corticosterone; Glucocorticoid receptor; Rat; Sensitization (Węzdony, K. (657) 351)

p-Chloroamphetamine; Nucleus accumbens; Brain dialysis; Dopamine; Serotonin; Freely moving rat (Sugita, R. (658) 255)

Benzodiazepine; Lateral geniculate nucleus; Neuropeptide Y; Suprachiasmatic nucleus (Wickland, C. (660) 293)

Epibatidine; Nicotine; Antinociception; Drug discrimination; Hypothermia (Damaj, M.I. (664) 34)

Nucleus accumbens core; Nucleus accumbens shell; Dopamine; NMDA receptor (Pulvirenti, L. (664) 231)

Locomotor behavior
Systemic administration; 3-Nitropropionic acid; Dopamine D_1 receptor binding; Striatum; Mitochondrial impairment (Koutouzis, T.K. (646) 242)

Locus ceruleus
QX-314; Inward rectifier; K^+ channel; Noradrenergic; Opiate receptor (Alreja, M. (639) 320)

2-Methyl-1,2,3,4-tetrahydroisoquinoline (2-MTIQ); C57BL/6J mouse; Substantia nigra; Tyrosine hydroxylase; Parkinsonism (Fukuda, T. (639) 325)

Noradrenaline; Synapse; Paraventricular nucleus of the hypothalamus; Supraoptic nucleus; Membrane turnover; Dopamine β-hydroxylase; Volume transmission (Aoki, C. (650) 181)

Catecholamine; Macaque monkey; Substantia nigra; Tyrosine hydroxylase (Lewis, D.A. (656) 1)

α_2-Receptor; Clonidine; Excitatory amino acid; Voltammetry, in vivo; Withdrawal syndrome (Duggan, S. (665) 253)

MPTP; Parkinson's disease; Dopamine; Norepinephrine; Substantia nigra (Bing, G. (668) 261)

Locus ceruleus aging
Human brain; Alzheimer's disease; Immunocytochemistry (Van Zwieten, E.J. (649) 329)

Locus coeruleus
Noradrenaline; Fast cyclic voltammetry; Brain slice; Electrical stimulation (Palij, P. (634) 275)

Aspartate; Excitatory amino acid; Glutamate; Microdialysis; Naltrexone; Opiate withdrawal (Aghajanian, G.K. (636) 126)

c-*fos*; CRF antagonist; Paraventricular nucleus of the hypothalamus; Stress; Fecal output (Bonaz, B. (641) 21)

Olfactory bulb; Norepinephrine; Dopamine; Serotonin; Associative learning; Memory; Rat pup (Sullivan, R.M. (643) 306)

Corticotropin releasing factor; Central nervous system control of gastrointestinal transit; Gastric emptying; Colonic transit; Stress (Mönnikes, H. (644) 101)

Norepinephrine; Microdialysis; Cocaine; Frontal cortex; Hippocampus (Thomas, D.N. (645) 135)

Galanin; Galanin mRNA; Genetic hypertension; Nucleus tractus solitari (Kunkler, P.E. (651) 349)

Antidepressant; Tumor necrosis factor; Adrenergic; Hippocampus; Brain (Ignatowski, T.A. (665) 293)

Locus coeruleus, electrical stimulation
Locus coeruleus, human; Anxiety; Anxiogenesis; Norepinephrine, from human locus coeruleus (Libet, B. (634) 178)

Locus coeruleus, human
Locus coeruleus, electrical stimulation; Anxiety; Anxiogenesis; Norepinephrine, from human locus coeruleus (Libet, B. (634) 178)

Locust
Fly; Neuropeptide; Neurotensin; Insect visual system; Medulla; Retina (Ammermüller, J. (636) 40)

Locustatachykinin
Tachykinin-related peptide; Substance P; Immunocytochemistry; Invertebrate; *Helix pomatia* L.; Mollusc (Elekes, K. (661) 223)

Long-latency reflex
Cortex; Magnetic stimulation; Cutaneous reflex; Human (Ohki, Y. (633) 343)

Long-latency stretch reflex
Evoked cerebral potential; Limb stiffness; Servo-mechanism; Late reflex response (Chequer, R.S. (641) 273)

Long-term depression
Long-term potentiation; Neocortex; Chronic preparation; Memory; Paired-pulse inhibition; Cholinergic; Enriched environment (Racine, R.J. (637) 83)

Epilepsy; Long-term potentiation; Interictal; Ictal; Seizure; Hippocampus; Potassium (Contzen, R. (653) 340)

Synaptic plasticity; Visual cortex; Metabotropic glutamate receptor (Kato, N. (665) 158)

Long-term memory
Chick; Postsynaptic plasticity; Spine (Lowndes, M. (654) 129)

Long-term potentiation
Hippocampus; G protein; ACPD receptor; Phosphoinositide (Breakwell, N.A. (633) 72)

Short-term potentiation; Neocortex; Memory; Paired-pulse inhibition (Racine, R.J. (637) 73)

Long-term depression; Neocortex; Chronic preparation; Memory; Paired-pulse inhibition; Cholinergic; Enriched environment (Racine, R.J. (637) 83)

Hippocampus; Fiber volley; Tetraethylammonium; 4-Aminopyridine; Presynaptic; Action potential; Potassium channel (Lærum, H. (637) 349)

Serotonin; Theta burst stimulation; NMDA receptor; GABA receptor; CA1; Hippocampal slice (Staubli, U. (643) 10)

Dentate gyrus; Fucose; 2'-Fucosyllactose (Krug, M. (643) 130)

Nitric oxide; Glutamate; Synaptosome; Hippocampus; Rat (Kamisaki, Y. (644) 128)

Protein kinase C; Calcium; Hippocampus; CA1; EPSP; Rat (Cheng, G. (646) 230)

Ginsenoside Rb1; Malonylginsenoside Rb1; Ginsenoside Rg1; Dentate gyrus; Anesthetized rat (Abe, K. (649) 7)

Epilepsy; Long-term depression; Interictal; Ictal; Seizure; Hippocampus; Potassium (Contzen, R. (653) 340)

Hippocampus; Lesion; Basolateral amygdala; Amygdalo-hippocampal interaction (Ikegaya, Y. (656) 157)

NMDA antagonist; CPP; Commissural CA3; In vivo; Rat (Hernandez, R.V. (656) 215)

Spatial memory; Fimbria-fornix lesion; Neural transplantation; Epileptiform activity; Hippocampus; Rat (Kleschevnikov, A.M. (656) 221)

Superior cervical ganglion; GABA; GABA receptor (González Burgos, G.R. (658) 1)

Hippocampus; Pavlovian fear conditioning; Sex difference; Contextual learning; (Rat) (Maren, S. (661) 25)

Norepinephrine; β-Receptor; cAMP; Perforant path; Neural plasticity; Hippocampus (Frizzell, L.M. (663) 173)

Sodium nitroprusside; Nitric oxide; Hippocampal slices (Li, G. (667) 33)

MK-801; 4-Aminopyridine; Potassium; Veratridine (Canevari, L. (667) 115)

Loop diuretics
Cerebrospinal fluid; Furosemide; Ethacrynic acid; Acetazolamide; Cisternal microdialysis (Johanson, C.E. (641) 121)

Lordosis
Hypothalamus; Midbrain central gray; Estrogen (McCarthy, M.M. (636) 209)

Accessory olfactory bulb; Mating behavior; Immunohistochemistry; c-*fos*; Female rat; Accessory olfactory system; Lesion (Dudley, C.A. (642) 29)

Estrogen; Intracerebral infusion; Midbrain central gray; Phorbol ester; Protein kinase

C; Protein kinase C inhibitor; RU486; Tetradecanoyl phorbol acetate; Hypothalamic ventromedial nucleus (Kow, L.-M. (660) 241)

Area postrema; Estrous cycle; Glucoprivation; Metabolic fuel; Nucleus tractus solitarii; 2-Deoxy-D-glucose (Schneider, J.E. (661) 70)

Baclofen; Bicuculline methiodide; Enkephalin; Estrogen; γ-Aminobutyric acid; $GABA_A$ receptor; $GABA_B$ receptor; THIP; Tonic inhibition; Ventromedial nucleus of hypothalamus (Ogawa, S. (666) 239)

Losartan
Thirst; Cellular dehydration; Angiotensin II; Brain sodium concentration; Cattle; Sheep; Rabbit; Rat; Mouse (Blair-West, J.R. (637) 335)

Arterial pressure; Sympathetic nervous system; Angiotensin II; L-Glutamate; Vasomotor neuron; Genetic hypertension (Averill, D.B. (665) 245)

Low affinity nerve growth factor receptor
Nerve growth factor; Hypertension; Nucleotide sequence; Point mutation; Spontaneously hypertensive rat; Signal peptide (Nemoto, K. (655) 267)

Low K_m GTPase
Chronic κ-agonist treatment; Antinociception; Tolerance; G protein; Protein kinase C (Feng, Y. (667) 133)

Low molecular weight
Acid phosphatase; Tyrosine; Phosphorylation; Epidermal growth factor receptor; Brain; Alzheimer's disease (Shimohama, S. (662) 185)

Lucifer yellow
Brain slice; Electrotonic coupling; Hypothalamus; Intracellular injection; Neurobiotin (Hatton, G.I. (650) 63)

Lumbosacral spinal cord
NADPH-diaphorase; Dorsal root ganglia; Major pelvic ganglia; Nitric oxide synthase; Urinary bladder; Penis; Urethra (Vizzard, M.A. (646) 279)

Luminal and abluminal membrane
Blood–brain barrier glucose transporter; Kinetic constant; GLUT1 isoform; Quantitative immunogold electron microscopy; Neonate; Suckling; Weanling and adult; Developmental upregulation; Cerebral blood flow; Permeability-surface area product (Cornford, E.M. (663) 7)

Lurcher mutant
Cerebellum; Motor coordination; Motor learning (Lalonde, R. (639) 351)

Luteinising hormone
Cytokine; Tachykinin; Interleukin-1; Hypothalamus; Neurokinin A; Castration (Kalra, P.S. (662) 178)

Luteinizing hormone
Taurine; Pituitary cell culture; Luteinizing hormone-releasing hormone; Mediobasal hypothalamus; Superfusion; NMDA (Arias, P. (634) 325)

Estrogen receptor; Hypothalamus; Ovulation; Electron microscopy (Langub Jr., M.C. (641) 303)

κ Opioid receptor; Norepinephrine; Dopamine; Medial basal hypothalamus; Pregnancy; Push–pull perfusion (Zhen, S. (642) 178)

GABA; Sexual maturation; Androgenization; $GABA_A$ receptor; Ontogenesis (Szwarcfarb, B. (646) 351)

Amino acid; Monoamine; Mediobasal hypothalamus; Estrus behavior; Sheep (Fabre-Nys, C. (649) 282)

TIDA; Dopamine; Morphine; Haloperidol; Norepinephrine; Apomorphine; Prolactin; Tuberoinfundibular (He, J.-R. (653) 1)

Nitric oxide; Prolactin; Corticosterone; Steroid; Proestrus (Bonavera, J.J. (660) 175)

Adrenaline; Dopamine; Estradiol; Hypothalamus; Luteinizing hormone-releasing hormone; Neuropeptide Y; Noradrenaline; Progesterone; Prolactin; Sexual differentiation (Crowley, W.R. (663) 257)

Luteinizing hormone-releasing hormone
Taurine; Luteinizing hormone; Pituitary cell culture; Mediobasal hypothalamus; Superfusion; NMDA (Arias, P. (634) 325)

Adrenaline; Dopamine; Estradiol; Hypothalamus; Luteinizing hormone; Neuropeptide Y; Noradrenaline; Progesterone; Prolactin; Sexual differentiation (Crowley, W.R. (663) 257)

Luteinizing hormone releasing hormone pulse generator
$GABA_A$ receptor; Bicuculline; Muscimol; Pulsatile luteinizing hormone release; Ovariectomized rat (Hiruma, H. (641) 191)

LY163502
Depolarization; cAMP; Glutamate; G protein (Sim, L.J. (651) 311)

LY-293558
Deoxysugar; Glutamate; Central nervous system depression; NBQX; Autoradiography (Browne, S.E. (641) 10)

Lymnaea stagnalis
Peptide processing and electrical activity; Peptide release by exocytosis; Caudodorsal cell; Quantitative immunoelectron microscopy (Roubos, E.W. (644) 83)

B-Lymphocyte
Morphine tolerance; Morphine abstinence; Mouse; T-Lymphocyte; Natural killer cell; Cytotoxic T-lymphocyte; Cytokine (Bhargava, H.N. (642) 1)

T-Lymphocyte
Morphine tolerance; Morphine abstinence; Mouse; B-Lymphocyte; Natural killer cell; Cytotoxic T-lymphocyte; Cytokine (Bhargava, H.N. (642) 1)

Lysosomal enzyme
Epinephrine neuron; Alzheimer's disease; Tonic vasomotor center (Burke, W.J. (661) 35)

Lysosomal hydrolase
Neurodegenerative disease; Amyloid; Lipofuscin; Senile plaque; Aging (Cataldo, A.M. (640) 68)

Lysosome
Neuron; Dense bodies; Leupeptin; Protease inhibitor; Amyloid precursor protein; Alzheimer's disease (Hajimohammadreza, I. (640) 25)

M

Macaca mulatta
Protein kinase C; Retina; Lateral geniculate nucleus; Visual cortex; Immunocytochemistry; Subspecies (Fukuda, K. (658) 155)

Macaque
Calbindin; Calcium-binding protein; Striatum; Associative cortical territory; Sensorimotor cortical territory; Primate (François, C. (633) 331)

Macaque monkey
Catecholamine; Locus ceruleus; Substantia nigra; Tyrosine hydroxylase (Lewis, D.A. (656) 1)

Macronutrient intake
Opioid; Naltrexone; Beta-funaltrexamine; Naloxonazine; Nor-binaltorphamine; DALCE; Naltrindole; Food deprivation; 2-Deoxy-D-glucose (Koch, J.E. (657) 191)

Macrophage
Quinolinic acid; Spinal cord injury; Inflammation; Microglia; Blood–brain barrier (Popovich, P.G. (633) 348)

Ischemia; NADPH diaphorase; Nitric oxide; Glial fibrillary acidic acidic protein; Immunohistochemistry (Endoh, M. (651) 92)

Lipopolysaccharide; Brain inflammation; Glial activation; Major histocompatibility complex antigen; Natural killer cell; Brain-derived neurotrophic factor (Montero-Menei, C.N. (653) 101)

Carboxylesterase; Endothelial cell; Stroke; Alzheimer's disease; Amyotrophic lateral sclerosis (Yamada, T. (658) 163)

Brain injury; Microglia; CGP 42112; Wound healing; Inflammation (Viswanathan, M. (658) 265)

Acidic fibroblast growth factor; Immunohistochemistry; Cerebral infarction (Hara, Y. (664) 101)

Macrophage colony stimulating factor
Microglia; Receptor; Alzheimer's disease (Akiyama, H. (639) 171)

Magnesium
Dopamine receptor; 7-Hydroxy-DPAT; G protein; Raclopride; Remoxipride; *N*-Propylnorapomorphine; Quinpirole (Liu, Y. (643) 343)

NMDA receptor; Hypoxia; Brain; Piglet; MK-801; Na^+,K^+-ATPase (Hoffman, D.J. (644) 144)

M-current; Inward rectification; G-protein; Inhibitory postsynaptic potential; Patch-clamp; Autonomic nerve; Channel block (Kurenny, D.E. (658) 239)

Nuclear magnetic resonance; Trauma; Bioenergetics; Treatment (Golding, E.M. (668) 46)

Magnesium therapy
Allodynia; Hyperalgesia; Neuropathic pain; Peripheral neuropathy (Xiao, W.-H. (666) 168)

Magnetic resonance imaging
Blood–cerebrospinal fluid barrier; Gadolinium-diethylene triamine pentacetic acid; Transient cerebral ischemia (Nagahiro, S. (633) 305)

Malonate; 3-Nitropropionic acid; Excitotoxicity; Huntington's disease; Parkinson's disease (Henshaw, R. (647) 161)

Magnetic resonance spectroscopy
Repeated ischemia; Cerebral ischemia; Glucose; Piglet (Laptook, A.R. (638) 78)

Magnetic source imaging
Auditory cortex; Tonotopic; Event-related field; Neuromagnetism; Interstimulus interval (Cansino, S. (663) 38)

Magnetic stimulation
Long-latency reflex; Cortex; Cutaneous reflex; Human (Ohki, Y. (633) 343)

Major histocompatibility complex antigen
Lipopolysaccharide; Brain inflammation; Glial activation; Macrophage; Natural killer cell; Brain-derived neurotrophic factor (Montero-Menei, C.N. (653) 101)

Major pelvic ganglia
NADPH-diaphorase; Dorsal root ganglia; Nitric oxide synthase; Urinary bladder; Penis; Urethra; Lumbosacral spinal cord (Vizzard, M.A. (646) 279)

Major petrosal nerve
Sympathetic nerve; Superior cervical ganglion; Anterograde tracing; Cochlea; Wheat germ agglutinin–horseradish peroxidase; Rat (Shibamori, Y. (646) 223)

Male sexual behavior
Medial preoptic area; Unit activity; Rat; Copulation; Motivation (Shimura, T. (640) 215)

Male sexual interest
Odor preference; Estrous female odor; Neurosteroid; 3α-Hydroxy-4-pregnen-20-one; GABA; GABA receptor; Male sexual motivation; Olfactory response (Kavaliers, M. (646) 140)

Male sexual motivation
Odor preference; Estrous female odor; Neurosteroid; 3α-Hydroxy-4-pregnen-20-one; GABA; GABA receptor; Male sexual interest; Olfactory response (Kavaliers, M. (646) 140)

Malignant glioma
Cytokine; Interleukin-10; Gene; Polymerase chain reaction (Nitta, T. (649) 122)

Malnutrition
Prenatal protein malnutrition; Hippocampus; CA3 pyramidal cell; Morphometric Golgi study; Hippocampal formation (Díaz-Cintra, S. (662) 117)

Malonate
3-Nitropropionic acid; Excitotoxicity; Magnetic resonance imaging; Huntington's disease; Parkinson's disease (Henshaw, R. (647) 161)

Malonylginsenoside Rb1
Ginsenoside Rb1; Ginsenoside Rg1; Long-term potentiation; Dentate gyrus; Anesthetized rat (Abe, K. (649) 7)

Mammal
Circadian rhythm; Entrainment; Suprachiasmatic nucleus (Kaufman, C.M. (633) 162)

Mammalian central neuron
Intracellular recording; Synaptic integration; White noise; Neocortex; Hippocampus; Thalamus; Purkinje cell; Brain slice; Slice culture (Jahnsen, H. (666) 9)

Mammalian retina
Pituitary adenylate cyclase activating polypeptide (PACAP); Adenylyl cyclase (Onali, P. (641) 132)

Mammillary body
Argyrophilic nucleolar region; Postnatal development; Undernutrition; Rat (González-Pardo, H. (654) 75)

Manganese
Circadian pacemaker; Calcium; Fura-2; Oscillator; Opisthobranch mollusk; Cell culture (Geusz, M.E. (638) 109)

Brain; Hippocampus; Choroid plexus; Blood–brain barrier; Zinc; Essential trace metal (Takeda, A. (640) 341)

Axonal transport; Basal ganglia; Ferritin; Iron; Neurotoxicity; Transferrin; Parkinson's disease (Sloot, W.N. (657) 124)

Cerebrospinal fluid; Choroid plexus; Blood–brain barrier; Zinc; Essential trace metal (Takeda, A. (658) 252)

MAP-2
CaM-II; Synapsin 1; Spectrin; Thalamus (Scheetz, A.J. (639) 181)

MAP2
Gene expression; Growth-associated gene; GAP-43; Stathmin; p19; α1-Tubulin; Plasticity; Brain; Neuron; In situ hybridization (Himi, T. (655) 177)

Maps formation
Synapse elimination; Cerebellum; Purkinje cell; Climbing fiber; X-irradiation; Vibrissa (Fuhrman, Y. (638) 277)

Masculine sexual behavior
Microdialysis; Dopamine; Dihydroxyphenylacetic acid; 5-Hydroxyindoleacetic acid; Nucleus accumbens; Medial preoptic area; Medial basal hypothalamus (Fumero, B. (662) 233)

Masseter motoneuron
Bilateral inhibitory postsynaptic spike potential; Supratrigeminal; Inhibitory premotor neuron; Bifurcating axon; Neurobiotin; Spike-triggered averaging; Cat (Kamogawa, H. (639) 85)

Mass fragmentography
3-Methoxytyramine; Dopamine release; Cerebellum; Hippocampus; Electroconvulsive shock; Haloperidol (Chrapusta, S.J. (655) 271)

Mastication
Excitatory amino acid; Brainstem; Trigeminal premotoneuron; Reticular formation (Turman Jr., J.E. (634) 49)

Mastomys natalensis
CCK-B receptor; Northern hybridization; In situ hybridization; Telencephalon; Cerebral cortex (Shigeyoshi, Y. (640) 81)

Maternal behavior
Paternal behavior; Microtus, Amygdala; Fos (Kirkpatrick, B. (658) 112)

Mating behavior
Accessory olfactory bulb; Lordosis; Immunohistochemistry; c-*fos*; Female rat; Accessory olfactory system; Lesion (Dudley, C.A. (642) 29)

Mechanoreceptor; Vagina; Uterine cervix; Pudendal nerve (Cueva-Rolón, R. (655) 1)

Matrix
Nerve regeneration; Degeneration; Peripheral nerve; Silicone; Implant; Schwann cell (Zhao, Q. (633) 97)

Striatal compartment; Striosome; GABA release; NMDA receptor; AMPA receptor; Cholinergic receptor; Striatal slice (Galli, T. (649) 243)

Human brain; Dopamine; Monoamine; Caudate nucleus; Putamen; Ventral striatum; Striosome (Lehéricy, S. (659) 1)

Mazindol
Cocaine; Prenatal; Dopamine uptake site; Striatum; Postnatal; Rat (Stadlin, A. (637) 345)

Obesity; Glucose; Norepinephrine; Anorectic receptor (Levin, B.E. (668) 171)

M&B28767
Prostaglandin E_2; Thermal hyperalgesia; Analgesia; Pain; 17-Phenyl-ω-trinor PGE_2; Central nervous system (Oka, T. (663) 287)

M-current
Inward rectification; G-protein; Inhibitory postsynaptic potential; Patch-clamp; Autonomic nerve; Magnesium; Channel block (Kurenny, D.E. (658) 239)

Meal patterning
Feeding; Nucleus accumbens; YM-09151-2; Reward; Switching (Clifton, P.G. (667) 123)

Meal size
Neuropeptide Y; Feeding behavior; Obesity; Genetic model; Overeating; Satiety (Stricker-Krongrad, A. (660) 162)

Measurement
L-DOPA; Nerve fiber; Dental pulp; Rat; Immunolocalization (Inoue, K. (657) 307)

Mecamylamine
Experimental epilepsy; Generalized seizure; Cholinergic system; Muscarinic receptor; Muscarinic M_1 receptor; Carbachol; Pirenzepine; Intracerebral injection; Zona incerta; Rat (Cruickshank, J.W. (643) 125)

Serotonin $5\text{-}HT_{1A}$ receptor; Nicotinic cholinergic receptor; 8-Hydroxy-DPAT; Morris water maze; Learning vs. performance (Riekkinen, M. (649) 174)

Substantia nigra; Ventral tegmental area; Nicotinic; Muscarinic; Cholinergic (Levin, E.D. (657) 165)

Hemorrhagic shock; Oxotremorine; Muscarinic; Atropine; Nicotinic; AV3V lesion (Onat, F. (660) 261)

Mechanical brain injury
Anti-ischemic activity; Hippocampal slice; Intracellular free calcium; Fura-2; Oxygen–glucose deprivation (Honda, T. (666) 263)

Mechanical stimulation
Sensorimotor reaction; Orbicularis oris; Active force dynamics; Skin contactor; Electromyography; Adult (Andreatta, R.D. (646) 175)

Afferent fiber; Hindpaw; Plantar injection; Thermal stimulation; Pain (Fukuoka, H. (657) 133)

Mechanoreceptor
Neuroma; Nerve injury; Myelinated fiber; Tinel sign; Degeneration (Koschorke, G.-M. (641) 99)

Vagina; Uterine cervix; Pudendal nerve; Mating behavior (Cueva-Rolón, R. (655) 1)

Medial amygdaloid nucleus
Human placental antigen $X\text{-}P_2$; Aromatase cytochrome P-450; Sexual dimorphism; Medial preoptic region; Bed nucleus of stria terminalis (Nagano, M. (634) 296)

Medial basal hypothalamus
Luteinizing hormone; κ Opioid receptor; Norepinephrine; Dopamine; Pregnancy; Push–pull perfusion (Zhen, S. (642) 178)

Microdialysis; Dopamine; Dihydroxyphenylacetic acid; 5-Hydroxyindoleacetic acid; Nucleus accumbens; Medial preoptic area; Masculine sexual behavior (Fumero, B. (662) 233)

Medial fimbria lesion
Cholinergic neural transplant; Acetylcholinesterase; Fimbria-fornix lesion; Cingulate lesion; Spatial reference memory; Spatial working memory; Activity (Dalrymple-Alford, J.C. (661) 243)

Medial geniculate body
Binaural response; Middle latency response; Central auditory pathway (Littman, T. (640) 286)

Medial prefrontal cortex
Microdialysis; Noradrenaline overflow; Noradrenaline metabolite; α_2-Autoreceptor; Frontoparietal cortex; Amygdala; Hippocampus (Van Veldhuizen, M.J.A. (635) 238)

Ceruletide; Dopamine release; Vagotomy; Cholecystokinin antagonist; Brain dialysis (Hagino, Y. (644) 40)

Cocaine; Microdialysis; Dopamine; DOPAC; Homovanillic acid; Nucleus accumbens; Striatum (Glick, S.D. (653) 148)

In vivo microdialysis; Immobilization stress; Noradrenaline release; Corticotropin-releasing factor (Shimizu, N. (654) 145)

Medial preoptic
Histamine; Stress; Norepinephrine; Paraventricular; α-Fluoromethylhistidine (Fleckenstein, A.E. (653) 273)

Medial preoptic area
Sexual function; Ejaculation (Marson, L. (638) 103)

Male sexual behavior; Unit activity; Rat; Copulation; Motivation (Shimura, T. (640) 215)

Anterior hypothalamus; Brain lesion; Reptile; Sexual behavior (Kingston, P.A. (643) 349)

Tyrosine hydroxylase; Estrogen; Medial preoptic nucleus; Rat (Yuri, K. (645) 278)

Brain LH/hCG receptor; Sleep–wake phase; Behavior; PGD_2; PGE_2; Hippocampus; Cerebral cortex (Toth, P. (654) 181)

Whole-cell patch-clamp recording; GABA; Glutamate (Hoffman, N.W. (660) 349)

Microdialysis; Dopamine; Dihydroxyphenylacetic acid; 5-Hydroxyindoleacetic acid; Nucleus accumbens; Medial basal hypothalamus; Masculine sexual behavior (Fumero, B. (662) 233)

2-Deoxyglucose; Anterior hypothalamus; Reptile; Ventromedial hypothalamus (Rand, M.S. (663) 163)

Medial preoptic nucleus
Tyrosine hydroxylase; Estrogen; Medial preoptic area; Rat (Yuri, K. (645) 278)

Medial preoptic region
Human placental antigen $X\text{-}P_2$; Aromatase cytochrome P-450; Sexual dimorphism; Bed nucleus of stria terminalis; Medial amygdaloid nucleus (Nagano, M. (634) 296)

Medial septum
Amphetamine; Radial maze; Learning; Memory; Sensitization; Drug–lesion interaction (Ennaceur, A. (636) 277)

Acetylcholine; Microdialysis; Hippocampus; Basal forebrain; Dual probe; Glutamate; Receptor; Kainate; NMDA; Diagonal band; Septal stimulation (Moor, E. (648) 32)

Fenfluramine; Penile erection; Cholinergic; Serotonergic; Dopaminergic; Hippocampus; Fimbria-fornix; Raphe nucleus (Maeda, N. (652) 181)

Epidermal growth factor; Transforming growth factor-α; Receptor; Neuron; Astrocyte; Oligodendrocyte; Microglia (Mazzoni, I.E. (656) 115)

Serotonin; PA and spatial navigation; Nicotine; THA (Riekkinen Jr., P. (662) 95)

Medial vestibular nucleus
NMDA receptor; Glutamate receptor; Whole-cell recording; Voltage clamp; Vestibular nucleus; Rat; Slice (Takahashi, Y. (659) 287)

Medial zona incerta
Histamine; MHPG; Norepinephrine; Hypothalamus (Fleckenstein, A.E. (638) 243)

Median eminence
Vasopressin; Cerebrospinal fluid; Pituitary gland; Immunocytochemistry; Neuroendocrine regulation (Cloft, H.J. (639) 233)

Olfactory bulb; Preoptic nucleus; Periventricular nucleus; Supraoptic nucleus; Paraventricular nucleus; Arcuate nucleus; Sympathetic activity (Vatta, M. (646) 324)

Tachykinin; Hypothalamus; Testosterone; Neurokinin A; Neuropeptide Y; Arcuate nucleus (Kalra, P.S. (653) 285)

Pituitary adenylate cyclase activating polypeptide; Tyrosine hydroxylase; Prolactin; Striatum; Lactation; Ovariectomized; Dopamine (Arbogast, L.A. (655) 17)

Amygdaloid lesion; Neural stimuli; CRF-41; ACTH; Corticosterone (Feldman, S. (658) 21)

Median preoptic area
Dehydration; Fos; Lamina terminalis; OVLT; Supraoptic (McKinley, M.J. (653) 305)

Median raphe nucleus
Hippocampus; Theta rhythm; Excitatory amino acid; NMDA (Kinney, G.G. (654) 96)

Mediobasal hypothalamus
Taurine; Luteinizing hormone; Pituitary cell culture; Luteinizing hormone-releasing hormone; Superfusion; NMDA (Arias, P. (634) 325)

Amino acid; Monoamine; Luteinizing hormone; Estrus behavior; Sheep (Fabre-Nys, C. (649) 282)

Mediodorsal nucleus
Nigrothalamic projection; Substantia nigra; Prefrontal cortex; Electrophysiology; Cat (Miyamoto, Y. (649) 313)

Medium-frequency oscillation
Central pattern generator; Bicuculline; Phrenic; Hypoglossal; Piglet (Steele, A.M. (650) 166)

Medulla
Proto-oncogene; c-Fos; Vagus nerve; Nucleus tractus solitarii; Inferior olivary complex (Yousfi-Malki, M. (635) 317)

Locust; Fly; Neuropeptide; Neurotensin; Insect visual system; Retina (Ammermüller, J. (636) 40)

Choline acetyltransferase; Acetylcholine; Rat; Brainstem; Paragigantocellular nucleus (Sherriff, F.E. (636) 119)

Defense reaction; Vigilance reaction; Baroreceptor reflex; Hypothalamus; Rabbit (Duan, Y.-F. (643) 218)

Nucleus accumbens; Tyrosine hydroxylase; Horseradish peroxidase; Fos; Triple labeling method; Stress response; Rat (Jin, G.R. (648) 196)

Medulla oblongata
Sympathetic; Vasomotor; Preganglionic neuron; Monosynaptic; Blood pressure (McAllen, R.M. (634) 227)

Cat; Breathing control; Central chemoreceptor; Fos immunohistochemistry (Teppema, L.J. (635) 353)

Adrenergic fiber; Autonomic nervous system; Catecholamine; Histamine; Pancreas; Parasympathetic nervous system; Pseudorabies virus; Raphe nucleus; Serotonin; Vagus nerve; Viral transneuronal labeling (Loewy, A.D. (638) 248)

Respiratory neuron; Nucleus tractus solitarii; Extracellular recording; Antidromic stimulation; DL-Homocysteic acid; Vagal afferent (De Castro, D. (639) 49)

Gastric movement; Glucose; Rat (Sakaguchi, T. (641) 163)

Melanocortin
Brain; Neuropeptide receptor; α-Melanocyte-stimulating hormone; Adrenocorticotropic hormone; Lacrimal gland; Melanoma; Rat (Tatro, J.B. (635) 148)

α-Melanocyte-stimulating hormone
Brain; Melanocortin; Neuropeptide receptor; Adrenocorticotropic hormone; Lacrimal gland; Melanoma; Rat (Tatro, J.B. (635) 148)

Dopamine; Periventricular-hypophysial; Mesolimbic; Stress; α-Fluoromethylhistidine (Fleckenstein, A.E. (653) 267)

Rat; Hypothalamus; Glutamic acid; *N*-Methyl-D-aspartic acid; Nitric oxide (Wayman, C.P. (666) 201)

α-Melanocyte stimulating hormone
Interleukin-1β; Hyperalgesia; Wide dynamic range neuron; Interleukin-1 receptor antagonist; Prostaglandin E_2; Central nervous system; Pain (Oka, T. (656) 236)

γ_3-Melanocyte-stimulating hormone
Proopiomelanocortin; β-Endorphin; Opioid antagonism; Naltrexone; Hypothalamus (Jaffe, S.B. (648) 24)

Melanoma
Brain; Melanocortin; Neuropeptide receptor; α-Melanocyte-stimulating hormone; Adrenocorticotropic hormone; Lacrimal gland; Rat (Tatro, J.B. (635) 148)

Melanotropic hormone
Fibroblast growth factor; Rat spinal cord; Dissociated cell culture; Neurite extension; Neuronal survival (Peulve, P. (654) 319)

Melatonin
Pineal; Suprachiasmatic nucleus; Pars tuberalis; Photoperiod; Photorefractory (Duncan, M.J. (640) 316)

Serotonin; Pinealocyte; Ketanserine (Olcese, J. (643) 150)

Receptor; Brain; Goldfish; Teleost (Iigo, M. (644) 213)

Ground squirrel; Guinea pig; Suprachiasmatic nucleus; Pars tuberalis; Photoperiod (Bittman, E.L. (648) 73)

Circadian rhythm; Pineal gland; Cell culture (Murakami, N. (651) 209)

Circadian oscillator; Fura-2; cAMP; Thapsigargin; Secretion (D'Souza, T. (656) 85)

Circadian rhythm; Photoentrainment (Wolfe, M.S. (662) 273)

Melatonin receptor
Light-dark cycle; Pars tuberalis; Suprachiasmatic nucleus; Pinealectomy; Constant darkness; Desensitization (Gauer, F. (641) 92)

2-Iodomelatonin binding; Chick; Visual system; Optic nerve transection; Autoradiography (Krause, D.N. (654) 63)

Melittin
Na^+,K^+-ATPase inhibitor; Ouabain; Erythrosin B; Zinc; Neuronal cytotoxicity; Acetylcholinesterase (Lees, G.J. (649) 225)

Membrane
Progesterone; Allopregnanolone; Steroid mechanism; Non-genomic; Neuroactivesteroid; Tail flick latency; Nociception (Frye, C.A. (643) 194)

Membrane attack complex
Complement; Alzheimer's disease; Ultrastructure; Tangle (Itagaki, S. (645) 78)

Membrane current
Action potential; Down's syndrome; Dorsal root ganglion; Nerve growth factor; Trisomy 16 mouse; Trisomy 21 (Coan, E.J. (650) 161)

Membrane parameter
Epileptogenesis; Neocortex (Szente, M.B. (648) 203)

Membrane potential oscillation
Inferior olive; Intracellular pH (Bleasel, A.F. (639) 8)

Membrane skeleton protein
Neurofibrillary tangle; Alzheimer's disease; Protein 4.1; Neurodegeneration (Sihag, R.K. (656) 14)

Membrane turnover
Noradrenaline; Synapse; Paraventricular nucleus of the hypothalamus; Supraoptic nucleus; Locus ceruleus; Dopamine β-hydroxylase; Volume transmission (Aoki, C. (650) 181)

Memory
Amphetamine; Medial septum; Radial maze; Learning; Sensitization; Drug–lesion interaction (Ennaceur, A. (636) 277)

Short-term potentiation; Long-term potentiation; Neocortex; Paired-pulse inhibition (Racine, R.J. (637) 73)

Long-term potentiation; Long-term depression; Neocortex; Chronic preparation; Paired-pulse inhibition; Cholinergic; Enriched environment (Racine, R.J. (637) 83)

Hippocampus; Asymmetry; Serotonin HT_{1A} receptor; 8-Hydroxy-DPAT; Locomotion; Learning; Anxiety (Belcheva, I. (640) 223)

Baclofen; Double Y-maze; GABA; Muscimol; Nucleus basalis magnocellularis; Phaclofen; Reference memory; Working memory (DeSousa, N.J. (641) 29)

Locus coeruleus; Olfactory bulb; Norepinephrine; Dopamine; Serotonin; Associative learning; Rat pup (Sullivan, R.M. (643) 306)

Nitric oxide; Domestic chick; Learning; IMHV; Palaeostriatum augmentatum (Ambalavanar, R. (644) 160)

Estrogen; High-affinity choline uptake; Choline acetyltransferase; Learning; Cytoprotection (Singh, M. (644) 305)

Inferotemporal cortex; Monkey; Visual memory; Extrastriate cortex; Area TE; Learning (Sobotka, S. (646) 95)

Learning; Corticosterone; RU 28318; RU 38486; Glucocorticoid receptor; Mineralocorticoid receptor; Chick (Sandi, C. (647) 106)

Hippocampus; Acetylcholine; Serotonin; Alzheimer's disease (Murtha, S.J.E. (651) 16)

Neuropeptide Y; Naloxone; Conditional discrimination (Cleary, J. (653) 210)

Learning; Permanent occlusion of bilateral common carotid arteries; Radial maze; Rat (Ni, J.-w. (653) 231)

Bombesin; Nucleus tractus solitari; Epinephrine; Avoidance learning; Radial arm maze (Williams, C.L. (654) 251)

Nucleus basalis; Acetylcholine; Rat; Neuroprotection; Excitatory amino acid (Wenk, G.L. (655) 7)

Glucose; Morphine; Acetylcholine; Microdialysis; Hippocampus (Ragozzino, M.E. (655) 77)

Aging; Stress; Hippocampus; Learning; Radial maze; Water maze; Morphometry (Arbel, I. (657) 227)

Amygdala; Central nucleus; Basolateral complex; Lidocaine; Inhibitory avoidance; Learning; Retention (Parent, M.B. (661) 97)

Glutamatergic dysfunction; Temporal region; Glycine; HA-966; NMDA receptor (Myhrer, T. (662) 263)

FG 7142; Double Y-maze; γ-Aminobutyric acid; Muscimol; Nucleus basalis magnocellularis; Reference memory; Working memory (Smith, C.G. (666) 61)

Memory and learning
Somatostatin; Cholinergic; Passive avoidance; Nucleus basalis magnocellularis; Cysteamine; FR121196; Physostigmine (Matsuoka, N. (642) 11)

Memory processing
Amnesia; Amyloid β-protein; Mouse; Peptide; Retention; K^+ channel (Flood, J.F. (663) 271)

Meninges
Transferrin; Transthyretin; 5-Hydroxytryptamine; Choroid plexus; Sympathetic nerve; Raphe nucleus; Cerebrospinal fluid (Blay, P. (662) 148)

2-Mercaptoacetate
c-*fos*; Vagus nerve; Glucoprivation; Lipoprivation; Glucoreceptor; 2-Deoxy-D-glucose; Rat brain (Ritter, S. (641) 111)

2-Mercaptoethanol
Human serum; Cell survival; Neurofilament 210 kDa; Oxidative stress; Fetal mouse brain (Katayama, M. (656) 409)

Mercuric chloride
Methylmercury; Rat; Astrocyte; Aspartate taurine; Glutathione (Aschner, M. (664) 133)

Mesencephalic locomotor region
Amphetamine; Conditioned place preference; Locomotion; Morphine; Pedunculopontine tegmental nucleus; Rat; Reinforcement (Olmstead, M.C. (638) 29)

Mesencephalon
Neural transplantation; Parkinson's disease; Dopamine; Cryopreservation; Diencephalon; Human embryo (Frodl, E.M. (647) 286)

Mesolimbic; Norepinephrine; Reinforcement; Drug abuse (Van Bockstaele, E.J. (647) 307)

Calcium-binding protein; Tyrosine hydroxylase; Parkinson's disease; Human (Mouatt-Prigent, A. (668) 62)

Mesocorticolimbic system
Somatodendritic dopamine release; Electrochemistry; Ventral tegmental area (Zhang, H. (656) 59)

Mesodiencephalic junction
Interposed nuclei; Inferior olive; GABA; Gold-lectin tracer; Electron microscopy (De Zeeuw, C.I. (653) 345)

Mesolimbic
Norepinephrine; Reinforcement; Drug abuse; Mesencephalon (Van Bockstaele, E.J. (647) 307)

Dopamine; Periventricular-hypophysial; Stress; α-Melanocyte-stimulating hormone; α-Fluoromethylhistidine (Fleckenstein, A.E. (653) 267)

Mesolimbic dopamine
Nicotine; Pedunculopontine tegmental nucleus; Cholinergic; Reinforcement; Dihydro-β-erythroidine; Cocaine (Corrigall, W.A. (653) 278)

Mesolimbic dopaminergic system
Ventral tegmental area; Substantia nigra; Hippocampal formation; Fluoro-Gold; Tyrosine hydroxylase (Gasbarri, A. (668) 71)

Mesolimbic dopamine system
Feeding behavior; Voltammetry; Motivation; Reinforcement (Kiyatkin, E.A. (652) 225)

Metabolic activity
Circadian rhythm; Adenosine triphosphate; Suprachiasmatic nucleus; Anterior hypothalamic area; Caudate putamen; Rat (Yamazaki, S. (664) 237)

Metabolic fuel
Area postrema; Estrous cycle; Glucoprivation; Lordosis; Nucleus tractus solitarii; 2-Deoxy-D-glucose (Schneider, J.E. (661) 70)

Metabolic rate
Ciliary neurotrophic factor; Signal transduction; SH-SY5Y cell; Cytosensor system (Johnson, R.M. (646) 327)

Metabolism
Brain; Ischemia; Infarction; Striatum; Cortex; Acidosis; Hyperglycemia (Kofke, W.A. (633) 171)

Microdialysis; Cocaine; Pharmacokinetics; Sensitization; Benzoylecgonine (Pettit, H.O. (651) 261)

Graft; Astroglia; Brain injury; Immunocytochemistry; Glucose (Rosenstein, J.M. (659) 277)

Metabotropic
NMDA; AMPA; Kainate; Decortication; Neostriatum (Wüllner, U. (647) 209)

Metabotropic glutamate receptor
Purine release; Hippocampal slice; cAMP; Forskolin (Casabona, G. (645) 13)

Synaptic plasticity; Long-term depression; Visual cortex (Kato, N. (665) 158)

Metabotropic receptor
Quisqualate; DCG-IV; Hippocampal slice; Phorbol ester (Genazzani, A.A. (659) 10)

Metallothionein
Alzheimer's disease; Growth inhibitory factor; Neurotrophic factor; Cortical neuron culture; MT-III, recombinant; Cadmium exchange assay; Human brain extract (Erickson, J.C. (649) 297)

Met-enkephalin
Opiate; Benzodiazepine; Antinociception; Drug interaction; Sedation; Serum morphine level (Sribanditmongkol, P. (645) 1)

Metergoline
Serotonin; Suprachiasmatic nucleus; Entrainment; Circadian; Light; DPAT; 5-CT; NAN-190; SDZ 216-525; Propranolol; 5-HT_{1A} receptor (Ying, S.-W. (651) 37)

Methamphetamine
Glucocorticoid receptor; Mineralocorticoid receptor; Adrenalectomy; Serotonin; Dopamine; Corticosterone (Lowy, M.T. (638) 175)

Neurotoxicity; Glutamate; Dopamine; Serotonin; Microdialysis (Abekawa, T. (643) 276)

Amfonelic acid; Tyrosine hydroxylase; Astrocyte; Neurotoxicity (Pu, C. (649) 217)

Neurotoxicity; Environmental temperature; Dopamine; Serotonin; MK-801; Phenobarbital; Diazepam (Ali, S.F. (658) 33)

Fos protein; Striatum; *N*-Methyl-D-aspartate receptor; MK-801; Rotational behavior; Sensitization; Immunohistochemistry (Ohno, M. (665) 135)

Neurotensin; Dopamine; Schizophrenia; Locomotion; SR 48692; Nucleus accumbens (Wagstaff, J.D. (665) 237)

Nitric oxide; Nitric oxide synthase inhibitor; L-NAME (Abekawa, T. (666) 147)

Methionine-enkephalin
Radioimmunoassay; Radioenzymatic assay; Wobbler mouse motoneuron disease; Cervical spinal cord; Acetylcholinesterase; Choline acetyltransferase; Thyrotropin-releasing hormone; Substance P; Leucine-enkephalin (Yung, K.K.L. (638) 337)

Methoctramine
Muscarinic receptor; Muscarinic antagonist; Desynchronized sleep; Pontine reticular nucleus; Rat (Imeri, L. (636) 68)

Muscarinic M_1 receptor; Muscarinic M_2 receptor; Pirenzepine; AF102B; Hippocampus; Working memory; Reference memory (Ohno, M. (650) 260)

5-Methoxy-*N*,*N*-dimethyltryptamine (5 MeODMT)
Serotonin receptor; Respiratory neuron; Tachypneic discharge; Respiratory inhibition (Lalley, P.M. (648) 87)

3-Methoxytyramine
Dopamine release; Cerebellum; Hippocampus; Electroconvulsive shock; Haloperidol; Mass fragmentography (Chrapusta, S.J. (655) 271)

N^G-Methyl-arginine
Nitric oxide; Pentylenetetrazol; N^ω-Intro-L-arginine; Epilepsy; Rat (Osonoe, K. (663) 338)

Methylatropine
Acetylcholine; Aortic depressor nerve; Baroreflex; Microinjection (Tsukamoto, K. (648) 9)

Methylcarbamylcholine
Lesion; Nicotine; *N*-Propylnorapomorphine; Protection; Neostriatum; Dopamine (Janson, A.M. (655) 25)

***N*-Methyl-D-aspartate**
Kainate; Excitatory amino acid; Glucose production; Glucose utilization; Catecholamine; Glucagon; Corticosterone; Insulin; Rat (Yousef, K.A. (634) 131)

Agatoxin; Conotoxin; Glutamate; Hypoglycemia; Hypoxia; Ischemia; Primary neuronal culture (Koretz, B. (643) 334)

Cerebral cortex; Glutamate; Neuroprotection; Nitric oxide; Primary culture; Prostaglandin (Akaike, A. (663) 237)

MK-801; Sympathetic; Rhythm; Development (Sica, A.L. (665) 323)

Dextromethorphan; Hippocampus (Church, J. (666) 189)

Kainate; Domoic acid; Homocysteic acid; Flupirtine; GABA immunoreactivity; Retina (Osborne, N.N. (667) 291)

***N*-Methyl-D-aspartate receptor**
In vivo microdialysis; Striatum; Amantadine; Dopaminergic neuron; Re-uptake inhibition (Mizoguchi, K. (662) 255)

Methamphetamine; Fos protein; Striatum; MK-801; Rotational behavior; Sensitization; Immunohistochemistry (Ohno, M. (665) 135)

***N*-Methyl-D-aspartic acid**
Rat; Hypothalamus; α-Melanocyte-stimulating hormone; Glutamic acid; Nitric oxide (Wayman, C.P. (666) 201)

1-Methyl-6,7-dihydroxy-1,2,3,4-tetrahydroisoquinoline
Salsolinol; Dopamine; Serotonin; Striatum; Substantia nigra; Hippocampus; Hypothalamus; Microdialysis (Nakahara, D. (644) 226)

α,β-Methylene ATP
Antinociception; P_2-purinoceptor antagonist; Rat tail-flick test; Rat formalin test; 2-Methylthio-ATP; Intrathecal drug application (Driessen, B. (666) 182)

Methylenedioxyamphetamine
Transgenic mouse; Superoxide dismutase; Methylenedioxymethamphetamine; Lethality; Free radical (Cadet, J.L. (655) 259)

Methylenedioxymethamphetamine
Transgenic mouse; Superoxide dismutase; Methylenedioxyamphetamine; Lethality; Free radical (Cadet, J.L. (655) 259)

Amphetamine abuse; Local cerebral blood flow; Cerebrovascular control; Cerebrovascular accident (Kelly, P.A.T. (665) 315)

2-Methyl-5-hydroxytryptamine
Serotonin 5-HT_3-like receptor; Hippocampus; CA1 pyramidal neuron; Synaptic transmission; L-Glutamate (Zeise, M.L. (651) 337)

Methylmercuric chloride
D-Aspartate; Rubidium; -SH group; Astrocyte (Mullaney, K.J. (641) 1)

Methylmercury
Ca^{2+}; Cerebellar neuron; Reactive oxygen species; Oxidative metabolism (Oyama, Y. (660) 154)

Mercuric chloride; Rat; Astrocyte; Aspartate taurine; Glutathione (Aschner, M. (664) 133)

Methyl palmoxirate
Palmitic acid; Arachidonic acid; Brain; Fatty acid; β-Oxidation; Phospholipid (Freed, L.M. (645) 41)

Methylprednisolone
Cell culture; Antioxidant; Na^+,K^+-ATPase; Thiobarbituric acid-reactive substance (Anderson, D.K. (637) 119)

Pneumococcal meningitis; Bacterial meningitis; Cerebral blood flow; Brain edema; Intracranial pressure (Koedel, U. (644) 25)

***N*-Methyl scopolamine**
Autoradiography; Hemicholinium-3; High-affinity choline uptake carrier; Muscarinic receptor; Muscarinic M_1 receptor; Parkinson's disease (Rodríguez-Puertas, R. (636) 327)

1-Methyl-tetrahydroisoquinoline
Tetrahydroisoquinoline; Substantia nigra; Striatum; Age (Ayala, A. (638) 334)

2-Methyl-1,2,3,4-tetrahydroisoquinoline (2-MTIQ)
C57BL/6J mouse; Substantia nigra; Locus ceruleus; Tyrosine hydroxylase; Parkinsonism (Fukuda, T. (639) 325)

2-Methylthio-ATP
Antinociception; P_2-purinoceptor antagonist; Rat tail-flick test; Rat formalin test; α,β-Methylene ATP; Intrathecal drug application (Driessen, B. (666) 182)

Methysergide
Spinal cord; Substance P; Cholecystokinin; Serotonin; Opiate; Excitatory amino acid; Hyperalgesia; CP96345; L 365260; Norbinaltorphimine; Naltrexone (Watkins, L.R. (664) 17)

c-Met protein
Hepatocyte growth factor; Astrocyte; Microglia; Alzheimer's disease (Yamada, T. (637) 308)

Metrazole
Brain; Hippocampus; Transcription factor; Regulatory protein; c-*fos*; c-*jun*; Seizure; CREB; Sensory cortex; Limbic cortex; Cerebellum; Gel-shift; EMSA; Supershift (Łukasiuk, K. (643) 227)

Metyrapone
Corticosterone; Cocaine; Psychomotor effect; Self-administration; Drug abuse (Piazza, P.V. (658) 259)

MG-160
Golgi apparatus; Brefeldin A; Glial fibrillary acidic protein; Astrocyte type I; Astrocyte type II; Electron microscopy; Immunohistochemistry; A2B5; HNK-1; Cell process (Lavi, E. (647) 273)

Mg^{2+} block
NMDA receptor; Nucleus tractus solitarii; Protein kinase C; Glycine; Development (Nabekura, J. (648) 152)

MHPG
Histamine; Norepinephrine; Hypothalamus; Medial zona incerta (Fleckenstein, A.E. (638) 243)

Microcirculation
Brain; Isoproterenol; Forskolin; Norepinephrine; Vascular reactivity (Mayhan, W.G. (659) 208)

Microdialysis
Phencyclidine; MK-801; Dopamine; Prefrontal cortex (Hondo, H. (633) 337)

Accumbens; Catalepsy; Dopamine; GABA; Haloperidol; Neostriatum; Tolerance (Osborne, P.G. (634) 20)

Cocaine; Dopamine; Prenatal; Striatum (Keller Jr., R.W. (634) 266)

Fastigial nucleus; Blood pressure; Kainate; Awake rat; Anesthesia; Heart rate (Parry, T.J. (635) 27)

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Noradrenaline overflow; Noradrenaline metabolite; α_2-Autoreceptor; Medial prefrontal cortex; Frontoparietal cortex; Amygdala; Hippocampus (Van Veldhuizen, M.J.A. (635) 238)

Aspartate; Excitatory amino acid; Glutamate; Locus coeruleus; Naltrexone; Opiate withdrawal (Aghajanian, G.K. (636) 126)

Alzheimer's disease; Amyloid β-peptide; Acetylcholine release; Septo-hippocampal pathway (Abe, E. (636) 162)

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Calcium channel; Glutamate; GABA; Hippocampus; ω-Conopeptide (Newcomb, R. (638) 95)

Ischemia; Acetylcholine; Delayed neuronal death; Hippocampus; Gerbil (Ishimaru, H. (639) 66)

Dopamine; NMDA receptor; MK-801; Dizocilpine; Striatum (Kiss, J.P. (641) 145)

Forebrain ischemia; *R*-Phenylisopropyladenosine; Amino acid release; Behavior; Neuronal damage; Rat (Héron, A. (641) 217)

Intracerebral transplantation; Parkinson's disease; Ventral tegmental area; Substantia nigra; Prefrontal cortex; Ventral striatum; Paw-reaching; Staircase test (Cenci, M.A. (641) 225)

Glucose; Excitatory amino acid; Cerebral ischemia; Glutamate; Hippocampus (Choi, K.T. (642) 104)

MPTP; Parkinsonism; Dopamine; Striatum; Volume transmission (Schneider, J.S. (643) 86)

Methamphetamine; Neurotoxicity; Glutamate; Dopamine; Serotonin (Abekawa, T. (643) 276)

1-Methyl-6,7-dihydroxy-1,2,3,4-tetrahydroisoquinoline; Salsolinol; Dopamine; Serotonin; Striatum; Substantia nigra; Hippocampus; Hypothalamus (Nakahara, D. (644) 226)

Norepinephrine; Cocaine; Frontal cortex; Hippocampus; Locus coeruleus (Thomas, D.N. (645) 135)

Control of breathing; Hypoglossal motoneuron; Pons; REM sleep; Serotonin; Sleep apnea syndrome; Upper airway (Kubin, L. (645) 291)

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Acetylcholine; Hippocampus; Basal forebrain; Dual probe; Glutamate; Receptor; Kainate; NMDA; Medial septum; Diagonal band; Septal stimulation (Moor, E. (648) 32)

Serotonin; Dorsal raphe nucleus; REM sleep; Brainstem (Portas, C.M. (648) 306)

Cocaine; Pharmacokinetics; Sensitization; Benzoylecgonine; Metabolism (Pettit, H.O. (651) 261)

Adenosine; Receptor; Nucleus tractus solitari; Nodose ganglion; Vagal afferent; Autoradiography; Glutamate (Castillo-Meléndez, M. (652) 137)

Serotonin; Norepinephrine; Apomorphine; Neostriatum; Parkinson's disease (Mandel, R.J. (653) 57)

Cocaine; Dopamine; DOPAC; Homovanillic acid; Nucleus accumbens; Striatum; Medial prefrontal cortex (Glick, S.D. (653) 148)

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Spinothalamic tract neuron; Strychnine; Bicuculline; Antinociception; Spinal cord; Monkey (Lin, Q. (654) 286)

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7-Hydroxy-DPAT; Acetylcholine release; 6-Hydroxydopamine (Sato, K. (655) 233)

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Immune; Dopamine; Homovanilic acid; 5-Hydroxyindoleacetic acid (Lacosta, S. (664) 225)

α-Neoendorphin; Pituitary gland; Circadian rhythm; Naloxone (Konya, H. (665) 130)

Ischemia; Repetitive ischemia; GABA; Substantia nigra reticulata; Delayed neuronal damage (Shuaib, A. (666) 99)

Sensitization; Cocaine; Amphetamine; MK-801; Nucleus accumbens; Dopamine (Wolf, M.E. (666) 223)

Excitatory amino acid; NMDA; Phencyclidine; Electrophysiology (Wang, T. (666) 255)

Dopamine; High pressure; Narcosis; Rat; Striatum (Barthelemy-Requin, M. (667) 1)

Amphetamine; Nucleus accumbens; Stimulant; Inbred rats strain; Locomotion; Stereotyped behavior; Sensitization; Pharmacokinetics (Camp, D.M. (668) 180)

Microdialysis (in vivo)
Primary immunization; Serotonin; Frontal cortex; Cyclosporin A (Gardier, A.M. (645) 150)

Microdissection
2-Deoxyglucose; Hyperglycemia; Microwave irradiation; VMH; PVN; LH; Acetylcholine; Norepinephrine (Takahashi, A. (665) 13)

Microelectrode
Monkey; Parietal cortex; Active touch; Spatial modulation; Somatosensory (MacKay, W.A. (645) 351)

Microglia
Quinolinic acid; Spinal cord injury; Inflammation; Macrophage; Blood–brain barrier (Popovich, P.G. (633) 348)

Complement receptor; Complement; ICAM-1; LFA-1; Blood–brain barrier (Akiyama, H. (635) 257)

Hepatocyte growth factor; c-Met protein; Astrocyte; Alzheimer's disease (Yamada, T. (637) 308)

Macrophage colony stimulating factor; Receptor; Alzheimer's disease (Akiyama, H. (639) 171)

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Epidermal growth factor; Transforming growth factor-α; Receptor; Medial septum; Neuron; Astrocyte; Oligodendrocyte (Mazzoni, I.E. (656) 115)

Interleukin-1β; Interleukin-6; Tumor necrosis factor-α; GM-CSF; M-CSF; Astrocyte (Mizuno, T. (656) 141)

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Cerebral ischemia; Ischemic tolerance; Astroglia; Immunohistochemistry; Neuron–glia interaction; Hippocampus; Gerbil (Kato, H. (664) 69)

Microinjection
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Fever; *Candida albicans*; Thermoregulation; Anterior hypothalamus; Fungus; Preoptic area; Temperature; Pyrogen contamination; Brain; Rat; Intracerebral injection; Hyperthermia (Barwick, V.S. (635) 1)

Acetylcholine; Methylatropine; Aortic depressor nerve; Baroreflex (Tsukamoto, K. (648) 9)

Cardiovascular control; Single unit response; Glutamate; Arterial pressure; Nucleus tractus solitari (Calaresu, F.R. (655) 45)

MK-801; Circling; Striatum; Rat; 6-Hydrohydopamine; Substantia nigra pars reticulata (St-Pierre, J.A. (660) 255)

Kainate; Nucleus parabrachialis; Respiration; Respiratory depression; After suppression; Naloxone (Hirano, T. (665) 54)

Defense reaction; Blood pressure; Heart rate; Conscious rat (Itoi, K. (668) 100)

Microiontophoresis
Oxytocin; Amygdala; Parabrachial nucleus; Oval nucleus; Oxytocin binding site; Histoautoradiography (Condés-Lara, M. (637) 277)

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Active sleep; Nucleus pontis oralis; Acetylcholine; Neostigmine; Cat (López-Rodríguez, F. (649) 271)

Cholecystokinin; Cholecystokinin receptor; GABA; Electrophysiology; Substantia nigra (Zhang, J. (652) 154)

Microiontophoresis in vitro hippocampus
NMDA; Receptor; D-AP5; Development; Rat (Gorter, J.A. (665) 63)

Microtubule
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Cerebellum; Neurofilament protein; Intracellular transport; Neuronal discharge; Electrophysiology; Electron microscopy (Seil, F.J. (636) 87)

Microtus, Amygdala
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Microvasculature
Ageing; Substance P; Sciatic nerve; Endothelium; Smooth muscle (Khalil, Z. (641) 265)

Ageing; Amyloid peptide; Substance P; SEC-receptor (Khalil, Z. (651) 227)

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Endothelium; Glioma; Differentiation; Blood–brain barrier (Arosarena, O. (640) 98)

Cerebral circulation; Cerebral cortex; Acetylcholine; Cerebral blood flow; Double immunofluorescence; Immunocytochemistry (Chédotal, A. (646) 181)

Microwave irradiation
2-Deoxyglucose; Hyperglycemia; Microdissection; VMH; PVN; LH; Acetylcholine; Norepinephrine (Takahashi, A. (665) 13)

Neuropeptide; Neuropeptide Y; Rat brain; Hippocampus; Electroacupuncture (Bucinskaite, V. (666) 128)

Micturition reflex
Glutamate; NMDA; AMPA; Urinary bladder (Sugaya, K. (640) 1)

Midazolam
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Midbrain central gray
Lordosis; Hypothalamus; Estrogen (McCarthy, M.M. (636) 209)

Estrogen; Intracerebral infusion; Lordosis; Phorbol ester; Protein kinase C; Protein kinase C inhibitor; RU486; Tetradecanoyl phorbol acetate; Hypothalamic ventromedial nucleus (Kow, L.-M. (660) 241)

Midbrain periaqueductal gray
Excitatory amino acid; Aggressive behavior; Cat; Amygdala; Glutamate; Aspartate; Defensive rage behavior (Shaikh, M.B. (635) 187)

Middle cerebral artery
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Middle cerebral artery occlusion
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Mineralocorticoid
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Mineralocorticoid receptor
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Mineralocorticoid receptor (type I)
Vasopressin V_1 receptor; Adrenalectomy; Hippocampus; Glucocorticoid receptor (type II); Receptor binding (Saito, R. (646) 170)

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Miniature junctional current
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Miniature synaptic current
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Mitochondrial impairment
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Mitochondrion
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Phencyclidine; Dopamine; Prefrontal cortex; Microdialysis (Hondo, H. (633) 337)

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NMDA antagonist; NPC 12626; Opiate analgesia; κ Opioid receptor; μ Opioid receptor; Naloxone; U69,593; Norbinaltorphimine (Saucier, D.M. (637) 292)

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Dopamine; NMDA receptor; Dizocilpine; Striatum; Microdialysis (Kiss, J.P. (641) 145)

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σ Opioid site; NMDA receptor; 1,3-Di-(2-tolyl)guanidine (DTG); Dizocilpine; Amnesia model (Maurice, T. (647) 44)

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Corticosterone; Locomotor activity; Glucocorticoid receptor; Rat; Sensitization (Wędzony, K. (657) 351)

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Traumatic brain injury; Protein kinase C; Phorbol ester; NMDA receptor; Brain (Sun, F.-Y. (661) 63)

NMDA; Morphine; Dependence; Withdrawal (Kreeger, J.S. (663) 101)

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N-Methyl-D-aspartate; Sympathetic; Rhythm; Development (Sica, A.L. (665) 323)

Globus pallidus; Subthalamic nucleus; Extracellular recording; NBQX; AMPA; Kainate; NMDA (Soltis, R.P. (666) 21)

Sensitization; Cocaine; Amphetamine; Nucleus accumbens; Microdialysis; Dopamine (Wolf, M.E. (666) 223)

N^G-Monomethyl-L-arginine; Δ^9-Tetrahydrocannabinol; Analgesia; Hypothermia; Tolerance; Mouse (Thorat, S.N. (667) 77)

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MPTP; Parkinsonism; NMDA receptor; Diethyldithiocarbamate; MPP^+; Substantia nigra (Vaglini, F. (668) 194)

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(+)-MK 801
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Model
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Modulator
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Molecular layer
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Mollusc
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Molluscan neuron
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Memory; Inferotemporal cortex; Visual memory; Extrastriate cortex; Area TE; Learning (Sobotka, S. (646) 95)

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Dihydrexidine; Parkinsonism; Dopamine (Schneider, J.S. (663) 140)

Positron emission tomography; Ketamine; NMDA receptor; Dopamine D_2 receptor; Anesthesia; Striatum (Onoe, H. (663) 191)

Amygdala; Calretinin; Calcium-binding protein; Immunohistochemistry; Rat (McDonald, A.J. (667) 238)

Acetylcholinesterase; Brain; Rat; Positron emission tomography; Alzheimer's disease; Central cholinergic system; Nucleus basalis magnocellularis (Namba, H. (667) 278)

Monkey chorda tympani nerve
Taste enhancement; Saccharin; D-Phenylalanine; Sweet taste receptor site; Single fiber response (Ninomiya, Y. (635) 335)

Monoamine
Parkinson's disease; Hypothalamus; Dopamine; Noradrenaline; Serotonin (Shannak, K. (639) 33)

Hotfoot; Neurological mutation; Development; Ataxia; Amphetamine; Motor behavior; Thermoregulation (Draski, L.J. (645) 69)

Uptake; Dopamine; Serotonin; Transporter; Fetal; Rat; Development (Hyde, C.E. (646) 118)

Amino acid; Mediobasal hypothalamus; Luteinizing hormone; Estrus behavior; Sheep (Fabre-Nys, C. (649) 282)

Human brain; Dopamine; Caudate nucleus; Putamen; Ventral striatum; Striosome; Matrix (Lehéricy, S. (659) 1)

Adrenocorticotropin; Growth hormone; Hypothalamus; Neostigmine; Rat (Gotoh, M. (659) 259)

Monoamine oxidase
p-Chloroamphetamine; Neurotoxicity; Serotonin uptake site; Pargyline; Deprenyl; Clorgyline (Benmansour, S. (650) 305)

Fibroblast growth factor; Gliosis; Dopamine; Aromatic L-amino acid decarboxylase (Wang, J. (663) 199)

Monoamine oxidase B
Transgenic mouse; MPTP; Dopamine; DOPAC; Tyrosine hydroxylase; Substantia nigra (Andersen, J.K. (656) 108)

Monoamines
Thymectomy; Learning and memory; Immune response; Choline acetyltransferase activity (Zhang, Y. (658) 127)

Monoclonal antibody
Quantitative immunocytochemistry; 6-Hydroxydopamine lesion; Striatum; Substantia nigra; Autoradiography (Norman, A.B. (638) 352)

Cell adhesion; Immunoglobulin superfamily; Pain pathway; Basal ganglia; Limbic system; Circumventricular organ; Cerebral cortex; Development (Peduzzi, J.D. (640) 296)

Ganglioside; Purkinje cell; Cerebellum; Mutant mouse; Glycolipid; Electron microscopy (Yamamoto, M. (662) 223)

Monoclonal antibody KA8
Human cerebral cortex; κ opioid receptor; Immunohistochemistry; Electron microscopy (Schmidt, P. (654) 223)

Monocyte
Von Willebrand factor; Hypertension; Lipopolysaccharide; Endothelial cell; Stroke (McCarron, R.M. (647) 265)

Monolayer network
Burst; Bicuculline; Epilepsy; Spinal cord (Rhoades, B.K. (643) 310)

N^G-Monomethyl-L-arginine
MK-801; Δ^9-Tetrahydrocannabinol; Analgesia; Hypothermia; Tolerance; Mouse (Thorat, S.N. (667) 77)

Monosodium glutamate
Glutamate release; Microdialysis; Striatum (Bogdanov, M.B. (660) 337)

Monosynaptic
Medulla oblongata; Sympathetic; Vasomotor; Preganglionic neuron; Blood pressure (McAllen, R.M. (634) 227)

Monosynaptic reflex
Thyrotropin-releasing hormone; 5,7-Dihydroxytryptamine; Serotonin; Spinal cord; Neonatal rat (Deshpande, S.B. (655) 263)

Morphine
Analgesia; NMDA receptor; Opiate tolerance; MK-801; Dizocilpine; Phencyclidine; Dextrorphan; Ketamine; Neuroplasticity (Trujillo, K.A. (633) 178)

Noradrenaline; Rat hippocampus; Brain microdialysis (Matsumoto, M. (636) 1)

Amphetamine; Conditioned place preference; Locomotion; Mesencephalic locomotor region; Pedunculopontine tegmental nucleus; Rat; Reinforcement (Olmstead, M.C. (638) 29)

Serotonin 5-HT_3 receptor; Serotonin 5-HT_3 antagonist; Dopamine neuron; Ventral tegmental area (Gifford, A.N. (638) 325)

Addiction; Sensitization; Social isolation; Corticosterone; Locomotor activity (Deroche, V. (640) 136)

Abstinence syndrome; Mouse; Nitric oxide; Naltrexone; MK-801; NMDA receptor; L-NMMA (Thorat, S.N. (642) 153)

Opiate; Ingestive behavior; Bulimia; Striatum; Nucleus accumbens; Rat (Bakshi, V.P. (648) 342)

Sendide; Neurokinin NK_1 receptor; Capsaicin; Spinal cord; Mouse (Sakurada, T. (649) 319)

Protein kinase C; Opioid tolerance; Butorphanol (Narita, M. (650) 175)

Nimodipine; Bay K-8644; Mouse; Analgesia; Reward (Kuzmin, A.V. (652) 1)

Antinociception; Periaqueductal gray; Rostral ventromedial medulla; Lidocaine; Descending inhibitory pathway (Urban, M.O. (652) 9)

TIDA; Dopamine; Haloperidol; Norepinephrine; Apomorphine; Luteinizing hormone; Prolactin; Tuberoinfundibular (He, J.-R. (653) 1)

Genetics; Selective breeding; μ Opioid receptor; Autoradiography (Mogil, J.S. (653) 16)

Cholecystokinin; In vitro release; Spinal cord; μ Opioid receptor; δ Opioid receptor; κ Opioid receptor (Benoliel, J.J. (653) 81)

DPDPE; U50488H; Opioid; Dopamine D_2 receptor; Striatum; Nucleus accumbens; Guinea pig (Brent, P.J. (654) 191)

Glucose; Acetylcholine; Microdialysis; Hippocampus; Memory (Ragozzino, M.E. (655) 77)

Ibogaine; Harmaline; Tabernanthine; Coronaridine; Ibogamine; Desethylcoronaridine; Cocaine; Drug self-administration (Glick, S.D. (657) 14)

Abstinence syndrome; Opiate dependence; Adenosine receptor; Receptor binding; Adenylate cyclase; Mouse brain (Kaplan, G.B. (657) 347)

Turnover; Norepinephrine; Dopamine; Hypothalamus; Preoptic area (Vathy, I. (662) 209)

NMDA; MK-801; Dependence; Withdrawal (Kreeger, J.S. (663) 101)

Glucose utilization; 2-Deoxyglucose; Pain; Limbic system; Footshock; Analgesia (Gescuk, B. (663) 303)

Morphine 6-glucuronide; Glucose; Catecholamine; Hormone; Intracerebroventricular; Rat (Molina, P.E. (664) 126)

HPA axis; Hypothalamus; Catecholamine; Reserpine; Adrenergic blocking drug (Martinez-Piñero, M.G. (668) 122)

Morphine abstinence
Morphine tolerance; NMDA receptor; MK-801; Brain region; Spinal cord; Down-regulation; Rat (Gudehithlu, K.P. (639) 269)

Morphine tolerance; Mouse; B-Lymphocyte; T-Lymphocyte; Natural killer cell; Cytotoxic T-lymphocyte; Cytokine (Bhargava, H.N. (642) 1)

Morphine analgesia
CCK-8; Nucleus accumbens; CCK-A receptor; CCK-B receptor (Pu, S.-F. (657) 159)

Morphine bimodal agonist action
Etorphine antagonism at excitatory opioid receptor; Dorsal root ganglion neuron; Action potential shortening vs. prolongation; Naloxone-precipitated excitatory effect (Shen, K.-F. (636) 286)

Morphine drug discrimination
Cholecystokinin; Opioid; Heroin self-administration; Devazepide; L365-260; Dopamine; Haloperidol (Higgins, G.A. (640) 246)

Morphine 6-glucuronide
Morphine; Glucose; Catecholamine; Hormone; Intracerebroventricular; Rat (Molina, P.E. (664) 126)

Morphine microinjection
Stimulation-produced analgesia; Periaqueductal gray; Formalin pain; Central sensitization; Plasticity (Vaccarino, A.L. (666) 104)

Morphine tolerance
Morphine abstinence; NMDA receptor; MK-801; Brain region; Spinal cord; Down-regulation; Rat (Gudehithlu, K.P. (639) 269)

Morphine abstinence; Mouse; B-Lymphocyte; T-Lymphocyte; Natural killer cell; Cytotoxic T-lymphocyte; Cytokine (Bhargava, H.N. (642) 1)

Morphine withdrawal
Chronic morphine; β-Adrenoceptor; Ca^{2+}-activated potassium afterhyperpolarization; Pyramidal neuron; Hippocampal slice (Ackerman, J.M. (656) 309)

Morphological analysis
Rat globus pallidus; Parvalbumin; Glutamate decarboxylase; Immunohistochemistry; Light microscopy; Electron microscopy (Kita, H. (657) 31)

Morphology
Cocaine; Benzoylecgonine; Neuroblastoma; Glioma; Neuron; Glia; Cytotoxicity; Toxicity (Lin, Y. (643) 108)

Morphometric Golgi study
Prenatal protein malnutrition; Hippocampus; CA3 pyramidal cell; Malnutrition; Hippocampal formation (Díaz-Cintra, S. (662) 117)

Morphometry
Lewy body; Substantia nigra; Nucleolar volume; Parkinson's disease (Gertz, H.-J. (637) 339)

CA1 pyramidal cell; Kainate lesion; Intracellular recording and labeling; Neuronal structure; Neuronal reconstruction; Electrotonic modelling (Pyapali, G.K. (652) 279)

Association cortex; Golgi; Basal dendrite; Development; Section thickness (Koenderink, M.J.Th. (653) 173)

Acetyl-L-carnitine; Brain aging; Synaptic morphology; Synaptic plasticity; Brain metabolism; Cholinergic synapse; Aging of cholinergic system (Bertoni-Freddari, C. (656) 359)

Aging; Stress; Hippocampus; Memory; Learning; Radial maze; Water maze (Arbel, I. (657) 227)

Synaptic vesicle; Transmitter release; Vesicle hypothesis; Exocytosis; Acetylcholine; *Torpedo* electric organ; Fractal dimension (Fox, G.Q. (660) 113)

Morris maze
Hippocampus; Striatum; Electrophysiology (Sagratella, S. (660) 66)

Morris water maze
Serotonin 5-HT_{1A} receptor; Nicotinic cholinergic receptor; 8-Hydroxy-DPAT; Mecamylamine; Learning vs. performance (Riekkinen, M. (649) 174)

Prefrontal cortex; Spatial learning and memory; Flexibility; Rat (De Bruin, J.P.C. (652) 323)

Mossy fiber
Synapse; P-type calcium channel; Transmitter release; Agatoxin; Perforant fiber; Hippocampus (Yamamoto, C. (634) 349)

Hippocampus; Synaptosome; Irradiation; Amino acid release; Glutamate decarboxylase (Taupin, P. (644) 313)

Opioid peptide; Grand mal seizure; Human; Axonal plasticity (Rees, H. (652) 113)

Aggression; Inbred mouse; Hippocampus; Genetic correlation (Guillot, P.-V. (660) 167)

Motivation
Male sexual behavior; Medial preoptic area; Unit activity; Rat; Copulation (Shimura, T. (640) 215)

Stress; Blood pressure; Heart rate; NMDA lesion (Frysztak, R.J. (643) 181)

Mesolimbic dopamine system; Feeding behavior; Voltammetry; Reinforcement (Kiyatkin, E.A. (652) 225)

Motoneuron
Cytochrome oxidase; Axotomy; Regeneration (Iannuzzelli, P.G. (637) 267)

Neurotrophin-3; Brain; Immunohistochemistry; Rat; Neurotrophic factor; Purkinje cell (Zhou, X.-F. (643) 162)

Gene expression; Oxidative stress; Amyotrophic lateral sclerosis; Superoxide dismutase (Bergeron, C. (659) 272)

Motor
Non-pyramidal neuron; White matter; Sensory; Association area (Hashikawa, T. (641) 341)

Motor behavior
Hotfoot; Neurological mutation; Development; Ataxia; Monoamine; Amphetamine; Thermoregulation (Draski, L.J. (645) 69)

Motor control
Sensory–motor convergence; Substantia nigra; Awake monkey; Unit activity; Polymodal sensory (Magariños-Ascone, C. (646) 299)

Electromyography; Biarticular muscle; Recruitment; Waveform; Coordination of motor pools (De Leon, R. (654) 241)

Spasticity; Hemiplegia; Stretch reflex; Threshold (Levin, M.F. (657) 23)

Lamprey; Reticulospinal projection (Wannier, T. (666) 275)

Motor coordination
Cerebellum; Lurcher mutant; Motor learning (Lalonde, R. (639) 351)

Motor cortex
NMDA receptor; MK-801; Motor neuron disease; Spinal cord (Shaw, P.J. (637) 297)

Presynaptic inhibition; Primary afferent depolarization; Muscle afferent; Spinal cord (Eguibar, J.R. (643) 328)

Neostriatum; Basal ganglia; Caudate; Putamen; Pyramidal tract (Ryan, L.J. (651) 241)

Motor neuron disease; Spinal cord; AMPA receptor; Kainate receptor; Excitotoxicity; Non-NMDA receptor; Autoradiography (Shaw, P.J. (655) 186)

Arm movement; Supplementary motor area (Bell, K.R. (655) 202)

Motor evoked potential
Transcranial magnetic stimulation; Human motor system; Handedness; Asymmetry (Triggs, W.J. (636) 270)

Motor expression
Kainate seizure; Dopamine; MPTP; Striatum (Bonuccelli, U. (657) 269)

Motor function
Dopamine; 6-Hydroxydopamine lesion; Basal ganglia; On-off phenomenon (Papa, S.M. (662) 69)

Motor incoordination
(−)-Nicotine; (−)-Cotinine; Intracerebellar; Adenosine; Nicotinic cholinergic receptor; Behavioral interaction (Dar, M.S. (644) 117)

Motor learning
Cerebellum; Lurcher mutant; Motor coordination (Lalonde, R. (639) 351)

Motor neuron disease
NMDA receptor; MK-801; Spinal cord; Motor cortex (Shaw, P.J. (637) 297)

Human motor cortex; Brainstem; Spinal cord; Non-NMDA receptor; Kainate binding; Autoradiography; Excitotoxicity (Shaw, P.J. (641) 39)

Wobbler mouse; Spinal cord; Glutamate receptor; Autoradiography (Tomiyama, M. (650) 353)

Spinal cord; Motor cortex; AMPA receptor; Kainate receptor; Excitotoxicity; Non-NMDA receptor; Autoradiography (Shaw, P.J. (655) 186)

Spinal cord; Glutamate transport; D-Aspartate binding; Autoradiography; Excitotoxicity (Shaw, P.J. (655) 195)

Motor trigeminal nucleus
Reeler mutant mouse; Neurological mutant mouse; Migration; Neural crest; Trigeminal ganglion (Terashima, T. (666) 31)

Mount
Nociception; Pain; Analgesia; Copulation; Female sexual behavior; Pelvic nerve; Pudendal nerve; Hypogastric nerve; Intromission; Ejaculation (Gómora, P. (656) 52)

Mouse
Glutamate receptor channel; NMDA receptor channel; ϵ Subunit; ζ Subunit; In situ hybridization; Retina; Development (Watanabe, M. (634) 328)

Thirst; Cellular dehydration; Angiotensin II; Losartan; Brain sodium concentration; Cattle; Sheep; Rabbit; Rat (Blair-West, J.R. (637) 335)

Morphine tolerance; Morphine abstinence; B-Lymphocyte; T-Lymphocyte; Natural killer cell; Cytotoxic T-lymphocyte; Cytokine (Bhargava, H.N. (642) 1)

Morphine; Abstinence syndrome; Nitric oxide; Naltrexone; MK-801; NMDA receptor; L-NMMA (Thorat, S.N. (642) 153)

Aggression; Hippocampal mossy fiber distribution; Selection (Sluyter, F. (646) 145)

Calcitonin gene-related peptide; Spinal nucleus of the bulbocavernosus; Genotype; Castration (Wagner, C.K. (647) 37)

Dopamine; Retina; Retinal dystrophy; Light/dark (Nir, I. (649) 85)

Interleukin-1 receptor; Adrenocorticotropic hormone; Corticosterone; Lipopolysaccharide; Hypothalamic-pituitary-adrenal axis (Takao, T. (649) 265)

Sendide; Neurokinin NK_1 receptor; Morphine; Capsaicin; Spinal cord (Sakurada, T. (649) 319)

Scratching; Grooming; NK-1 agonist; NK-2 agonist; Intracerebroventricular; NK-1 receptor; Substance P; Septide (Ravard, S. (651) 199)

Morphine; Nimodipine; Bay K-8644; Analgesia; Reward (Kuzmin, A.V. (652) 1)

Cholinergic septo-hippocampal system; High-affinity choline uptake; Noradrenergic drug; α-Adrenoceptor; Transsynaptic modulation (Marighetto, A. (652) 120)

Statoacoustic ganglion; Calretinin; Substance P; Culture (Rabejac, D. (652) 249)

Scrapie; Cytokine; Prostaglandin; Lipocortin; Astrocyte; Neurodegeneration (Williams, A.E. (654) 200)

Vasoactive intestinal polypeptide; Peptide histidine isoleucine; Peptide histidine valine; Suprachiasmatic nucleus; Cerebral cortex; Peptide processing; Vasoactive intestinal polypeptide precursor; Circadian (Mikkelsen, J.D. (656) 95)

Amnesia; Amyloid β-protein; Memory processing; Peptide; Retention; K^+ channel (Flood, J.F. (663) 271)

Histamine; H_3 receptor; Brain; Basal ganglia; Guinea pig (Cumming, P. (664) 276)

MK-801; N^G-Monomethyl-L-arginine; Δ^9-Tetrahydrocannabinol; Analgesia; Hypothermia; Tolerance (Thorat, S.N. (667) 77)

Mouse brain
Morphine; Abstinence syndrome; Opiate dependence; Adenosine receptor; Receptor binding; Adenylate cyclase (Kaplan, G.B. (657) 347)

Mouse genetics
Peripheral nerve regeneration; Sensory neuron (Lu, X. (652) 174)

Mouse N1E-115 neuroblastoma cell
Neuronal nicotinic receptor subunit; Whole-cell voltage clamp; Acetylcholine; Cytisine; Nicotine; Bungarotoxin (Zwart, R. (654) 312)

MPP $^+$
MPTP; Glutamate; Aspartate; ATP; Energy metabolism; 2-Deoxyglucose; Parkinsonism (Chan, P. (647) 249)

Tryptophan hydroxylase; Condensation product; Dihydroxy-tetrahydroisoquinoline; Tetrahydro-β-carboline; Catechol structure; MPTP (Matsubara, K. (655) 121)

PC12 cell; Nerve growth factor; S6 protein; Apoptosis (Mutoh, T. (661) 51)

MPTP; Parkinsonism; MK-801; NMDA receptor; Diethyldithiocarbamate; Substantia nigra (Vaglini, F. (668) 194)

MPTP
Neural transplantation; Adrenal medulla; Peripheral nerve; Cograft; Nerve growth factor (NGF); Parkinson's disease (Date, I. (637) 50)

Dopamine neuron; GM1 ganglioside; Substantia nigra; Tissue culture; Tyrosine hydroxylase (Stull, N.D. (640) 308)

Microdialysis; Parkinsonism; Dopamine; Striatum; Volume transmission (Schneider, J.S. (643) 86)

MPP^+; Glutamate; Aspartate; ATP; Energy metabolism; 2-Deoxyglucose; Parkinsonism (Chan, P. (647) 249)

Dyskinesia; Globus pallidus; Pallidotomy; Parkinsonism (Blanchet, P.J. (650) 32)

Tryptophan hydroxylase; Condensation product; Dihydroxy-tetrahydroisoquinoline; Tetrahydro-β-carboline; Catechol structure; MPP^+ (Matsubara, K. (655) 121)

Monoamine oxidase B; Transgenic mouse; Dopamine; DOPAC; Tyrosine hydroxylase; Substantia nigra (Andersen, J.K. (656) 108)

Kainate seizure; Dopamine; Striatum; Motor expression (Bonuccelli, U. (657) 269)

Parkinsonism; MK-801; NMDA receptor; Diethyldithiocarbamate; MPP^+; Substantia nigra (Vaglini, F. (668) 194)

Parkinson's disease; Dopamine; Norepinephrine; Locus ceruleus; Substantia nigra (Bing, G. (668) 261)

αMSH
ACTH analog; Calcium; cAMP; Dorsal root ganglia; Spinal cord; Schwann cell (Hol, E.M. (662) 109)

MT-III, recombinant
Metallothionein; Alzheimer's disease; Growth inhibitory factor; Neurotrophic factor; Cortical neuron culture; Cadmium exchange assay; Human brain extract (Erickson, J.C. (649) 297)

MTT assay
Alzheimer's disease; Amyloid β-protein; Aggregation; Neurotoxic; Hippocampal cell culture (Ueda, K. (639) 240)

Müller cell
Facilitated-diffusion glucose transporter; GLUT2; Rat retina; Glucose homeostasis (Watanabe, T. (655) 128)

Multichannel recording
Intracortical; AI; Primary auditory cortex; Cognitive; Evoked potential; Auditory (Javitt, D.C. (667) 192)

Multielectrode array
Visual cortex; Intracortical recording; Electrode recording property; Neuroprosthetics; Neurophysiology (Nordhausen, C.T. (637) 27)

Multiple sclerosis
Astrocyte; Catalase; Cytotoxicity; Free radical; Oligodendrocyte (Noble, P.G. (633) 83)

Mycoplasma; Nitric oxide; Tumor necrosis factor α; Prostaglandin E_2; Glial cell; Dexamethasone; AIDS dementia (Brenner, T. (641) 51)

Myelin; Myelin deficiency; Demyelination; Seizure; Tremor; Cerebellum (Rosenbluth, J. (650) 85)

Multiple-unit recording
Cerebellum; Discrimination; Reversal conditioning; Eyelid conditioning; Rabbit (Gould, T.J. (652) 98)

Multiplicity
NMDA receptor; MK-801 binding; Proton; Kainate binding; Spermidine binding (Yoneda, Y. (636) 298)

Muscarinic
Substantia nigra; Ventral tegmental area; Nicotinic; Cholinergic; Mecamylamine (Levin, E.D. (657) 165)

Hemorrhagic shock; Oxotremorine; Atropine; Nicotinic; Mecamylamine; AV3V lesion (Onat, F. (660) 261)

Muscarinic acetylcholine receptor
Neurotoxicity; Neonatal; Behavior; Insecticide; Pyrethroid; Bioallethrin (Ahlbom, J. (645) 318)

Rat basal forebrain; Glutamate receptor subtype; NMDA receptor; AMPA receptor; Kainate receptor; Autoradiography; In situ hybridization; GABA receptor; Benzodiazepine receptor (Roßner, S. (668) 85)

Muscarinic acetylcholine response
PC12 cell; Nystatin-perforated patch; Nicotinic acetylcholine response (Furukawa, K. (638) 302)

Muscarinic antagonist
Muscarinic receptor; Desynchronized sleep; Pontine reticular nucleus; Rat; Methoctramine (Imeri, L. (636) 68)

Muscarinic cholinergic receptor
Septo-hippocampal system; Development; Cholineacetyltransferase; Lead; Perinatal exposure; Rat (Bielarczyk, H. (643) 211)

Muscarinic M_1 receptor
Autoradiography; Hemicholinium-3; High-affinity choline uptake carrier; *N*-Methyl scopolamine; Muscarinic receptor; Parkinson's disease (Rodríguez-Puertas, R. (636) 327)

Experimental epilepsy; Generalized seizure; Cholinergic system; Muscarinic receptor; Carbachol; Pirenzepine; Mecamylamine; Intracerebral injection; Zona incerta; Rat (Cruickshank, J.W. (643) 125)

Muscarinic M_2 receptor; Pirenzepine; AF102B; Methoctramine; Hippocampus; Working memory; Reference memory (Ohno, M. (650) 260)

Choline acetyltransferase; Choline acetyltransferase mRNA; Muscarinic M_1-R mRNA; Parallelism; Aged rat brain; Bifemelane hydrochloride (Ogawa, N. (658) 87)

Muscarinic M_2 receptor
Muscarinic M_1 receptor; Pirenzepine; AF102B; Methoctramine; Hippocampus; Working memory; Reference memory (Ohno, M. (650) 260)

Theta rhythm; Hippocampus; Septum; Carbachol; Atropine; Gallamine; Septal infusion (Monmaur, P. (656) 199)

Muscarinic M_3 receptor
Acetylcholine response; Ciliary ganglion; Chick embryo (Furukawa, K. (657) 185)

Muscarinic M_1-R mRNA
Choline acetyltransferase; Choline acetyltransferase mRNA; Muscarinic M_1 receptor; Parallelism; Aged rat brain; Bifemelane hydrochloride (Ogawa, N. (658) 87)

Muscarinic receptor
Muscarinic antagonist; Desynchronized sleep; Pontine reticular nucleus; Rat; Methoctramine (Imeri, L. (636) 68)

Autoradiography; Hemicholinium-3; High-affinity choline uptake carrier; *N*-Methyl scopolamine; Muscarinic M_1 receptor; Parkinson's disease (Rodríguez-Puertas, R. (636) 327)

Cerebellum; Purkinje cell; GABA; Neuromodulation (Andre, P. (637) 1)

Alzheimer's disease; Arecoline; Cerebral blood flow; Cerebral glucose metabolism; Hippocampus; Rat (Maiese, K. (641) 65)

Experimental epilepsy; Generalized seizure; Cholinergic system; Muscarinic M_1 receptor; Carbachol; Pirenzepine; Mecamylamine; Intracerebral injection; Zona incerta; Rat (Cruickshank, J.W. (643) 125)

Alzheimer's disease; Endogenous inhibitor; Brain (Frey II, W.H. (655) 153)

Muscarinic signal transduction
Aging; Alzheimer's disease; GTPase (Cutler, R. (664) 54)

Muscimol
Glycine; GABA; Cardiovascular; Sympathetic preganglionic neuron; Microinjection (Madorin, W.S. (634) 13)

Baclofen; Double Y-maze; GABA; Memory; Nucleus basalis magnocellularis; Phaclofen; Reference memory; Working memory (DeSousa, N.J. (641) 29)

$GABA_A$ receptor; Bicuculline; Luteinizing hormone releasing hormone pulse generator; Pulsatile luteinizing hormone release; Ovariectomized rat (Hiruma, H. (641) 191)

Kainic acid; Seizure; Hippocampus; Hippocampal sclerosis (Araki, T. (653) 237)

Brain temperature; Cytokine-arachidonic acid cascade; Microdialysis (Osborne, P.G. (661) 237)

Carotid body; Chemoreceptor; Phrenic nerve; Respiration (Chitravanshi, V.C. (662) 127)

GABA; Baclofen; Sodium current; Calcium current; *Helix pomatia* (Haarmeier, Th. (663) 131)

Adenosine; γ-Aminobutyric acid; Hippocampus; Chloride; Barium (Akhondzadeh, S. (665) 229)

FG 7142; Double Y-maze; γ-Aminobutyric acid; Memory; Nucleus basalis magnocellularis; Reference memory; Working memory (Smith, C.G. (666) 61)

Muscle afferent
Presynaptic inhibition; Primary afferent depolarization; Spinal cord; Motor cortex (Eguibar, J.R. (643) 328)

Muscle spindle
Development; Fetal; Structure; Function (Rees, S. (642) 185)

Muscle spindle afferent
Arachidonic acid; Spinal reflex; Fusimotor neuron; Muscle tonus; Work-related myalgia (Djupsjöbacka, M. (663) 293)

Muscle tonus
Arachidonic acid; Spinal reflex; Fusimotor neuron; Muscle spindle afferent; Work-related myalgia (Djupsjöbacka, M. (663) 293)

Musk shrew
Aromatase enzyme; Immunocytochemistry; Sexual behavior; Limbic region; Estrogen receptor; Septum; Amygdala (Dellovade, T.L. (634) 141)

Mutant mouse
Neuro–glia interaction; Serotonin; Glial fibrillary acidic protein; Immunocytochemistry; High-performance liquid-chromatography (Ueda, S. (633) 275)

Neuro–glia interaction; S-100β; Serotonin; Growth factor; Cell culture (Ueda, S. (633) 284)

Dopamine; Weaver; Nigrostriatal pathway; Substantia nigra (Schneider, J.S. (636) 353)

Cerebellar cortex; Cerebellar nucleus; Inferior olive; Calcium binding protein (Heckroth, J.A. (658) 93)

Ganglioside; Purkinje cell; Cerebellum; Glycolipid; Electron microscopy; Monoclonal antibody (Yamamoto, M. (662) 223)

Mutation
Alzheimer's disease; Amyloid precursor protein; Transgenic; Synapse; Neuroplasticity (Mucke, L. (666) 151)

MVIIC
FTX; Ca^{2+}-channel; N-channel; Spermine; ω-Conotoxin; P-channel; Binding; AgaIVA; GVIA (Lundy, P.M. (643) 204)

Mycoplasma
Nitric oxide; Tumor necrosis factor α; Prostaglandin E_2; Glial cell; Dexamethasone; Multiple sclerosis; AIDS dementia (Brenner, T. (641) 51)

Myelin
Neurotrophic factor; Transferrin; Hippocampus; Cerebellum; Iron; Neurodevelopment (Dickinson, T.K. (635) 169)

Myelin deficiency; Demyelination; Multiple sclerosis; Seizure; Tremor; Cerebellum (Rosenbluth, J. (650) 85)

Myelinated axon
Astrocyte; Axon; Calcium-mediated injury; Sodium channel; Tetrodotoxin (Waxman, S.G. (644) 197)

Myelinated fiber
Mechanoreceptor; Neuroma; Nerve injury; Tinel sign; Degeneration (Koschorke, G.-M. (641) 99)

Myelin deficiency
Myelin; Demyelination; Multiple sclerosis; Seizure; Tremor; Cerebellum (Rosenbluth, J. (650) 85)

Myenteric plexus
Neurite outgrowth; Neuronal survival; Striatal neuron; Tetrodotoxin (Höpker, V.H. (648) 332)

Myotoxin
Neurotoxin; Facial nerve; Retrograde tracing; Orbicularis oculi muscle; DiI (McLoon, L.K. (641) 105)

N

Na^+/Ca^{2+} exchanger
Ca^{2+} transport; Primary neuron (Michaelis, M.L. (661) 104)

NADPH
Nitric oxide; Sympathetic; Superior cervical; Colocalization; Interaction (Vanhatalo, S. (652) 107)

NADPH-diaphorase
Dorsal root ganglia; Major pelvic ganglia; Nitric oxide synthase; Urinary bladder; Penis; Urethra; Lumbosacral spinal cord (Vizzard, M.A. (646) 279)

Nitric oxide; Nitric oxide synthase; Calcium current; cGMP; Dorsal root ganglion; Development (Ward, S.M. (648) 249)

Cerebral ischemia; Hippocampus; Ischemic tolerance; Nitric oxide synthase; Rat (Kato, H. (652) 71)

Facial motor neuron; Compression; Functional recovery; Rat (Ruan, R.-S. (652) 350)

Local circuit neuron; Nitric oxide; Cerebral cortex (Fischer, H.C. (654) 105)

Calbindin-D28k; Huntington's disease; Calcium binding protein; Nucleus accumbens; Core; Shell (Hussain, Z. (656) 191)

Nitric oxide synthase; Enzyme histochemistry (Kuo, H. (660) 57)

Cerebral endothelial cell; Nitric oxide; Neuron; Neuropathology; Soman (Bouchaud, C. (660) 249)

Subfornical organ; Organum vasculosum of the lamina terminalis; Cell culture; Immunocytochemistry; Angiotensin II; Calcium (Jurzak, M. (662) 198)

Anterograde neuronal tracing; Choleratoxin; Hamster; Suprachiasmatic nucleus; Hypothalamus; Nitric oxid synthase; Retinohypothalamic tract (Decker, K. (666) 284)

Endothelial nitric oxide synthase; Immunoelectron microscopy; Endothelial cell (Tomimoto, H. (667) 107)

Quinolinic acid; Picolinic acid; Striatum; Osmotic minipump (Kalisch, B.E. (668) 1)

Nitric oxide; Cochlea; Outer hair cell; NMMA (Fessenden, J.D. (668) 9)

Nitric oxide; Nitric oxide synthase; Inflammation; Nociception; Arthritis; Knee joint; Cat (Bscheidl, C. (668) 266)

NADPH diaphorase
Ischemia; Nitric oxide; Macrophage; Glial fibrillary acidic acidic protein; Immunohistochemistry (Endoh, M. (651) 92)

NADPH-diaphorase histochemistry
HPLC; Nitric oxide synthase; Nitric oxide; Crayfish; Olfaction (Johansson, K.U.I. (649) 36)

Naftidrofuryl oxalate
Serotonin 5-HT_2 antagonist; Neuronal damage; Cerebral blood flow; Gerbil; Cerebral ischemia (Fujikura, H. (636) 103)

Neurotransmitter; Receptor; Second messenger; Serotonin 5-HT_2 antagonist; Gerbil; Hippocampus; Aging (Ban, H. (646) 211)

Na^+,K^+-ATPase
Methylprednisolone; Cell culture; Antioxidant; Thiobarbituric acid-reactive substance (Anderson, D.K. (637) 119)

Cocaine; Newborn; Brain cell membrane injury (Lien, R. (637) 249)

Magnesium; NMDA receptor; Hypoxia; Brain; Piglet; MK-801 (Hoffman, D.J. (644) 144)

Brain; Hypoxia; α-Tocopherol; Lipid peroxidation (Shin, S.M. (653) 45)

Isozyme regulation; Ethanol; Synaptosome; (Rat cerebral cortex) (Foley, T.D. (653) 167)

Na^+,K^+-ATPase inhibitor
Ouabain; Melittin; Erythrosin B; Zinc; Neuronal cytotoxicity; Acetylcholinesterase (Lees, G.J. (649) 225)

$Na^+,K^+,2Cl^-$ Cotransport
Astrocyte; Cell swelling; Sodium pump (Mongin, A.A. (655) 110)

Naloxonazine
Macronutrient intake; Opioid; Naltrexone; Beta-funaltrexamine; Nor-binaltorphamine; DALCE; Naltrindole; Food deprivation; 2-Deoxy-D-glucose (Koch, J.E. (657) 191)

Naloxone
Brain-derived neurotrophic factor; Neurotrophin-3; Nerve growth factor; Analgesia; Periaqueductal gray; Spinal cord; Serotonin (Siuciak, J.A. (633) 326)

Endogenous opioid; Sexual motivation; Sexual behavior; Diurnal variation (Van Furth, W.R. (636) 175)

σ Opioid receptor; NCB20 cell; Haloperidol; Remoxipride; Antipsychotic; K channel (Morio, Y. (637) 190)

NMDA antagonist; MK-801; NPC 12626; Opiate analgesia; κ Opioid receptor; μ Opioid receptor; U69,593; Norbinaltorphimine (Saucier, D.M. (637) 292)

Chromaffin cell; Hyperalgesia; Neural transplantation; Peripheral neuropathy; Phentolamine (Hama, A.T. (651) 183)

Neuropeptide Y; Conditional discrimination; Memory (Cleary, J. (653) 210)

Oro-facial reflex; Exteroceptive suppression; Peripheral modulation; Temporalis (Schoenen, J. (657) 214)

Tyrosine hydroxylase; Olfactory bulb; Dopamine; Enkephalin; Neuronal culture; Nimodipine (McMillian, M.K. (658) 105)

Kainate; Microinjection; Nucleus parabrachialis; Respiration; Respiratory depression; After suppression (Hirano, T. (665) 54)

α-Neoendorphin; Microdialysis; Pituitary gland; Circadian rhythm (Konya, H. (665) 130)

Parafascicular neuron; Nociceptive suppression; Intrathecal administration; Norepinephrine; Serotonin; Atropine (Li, Y.-J. (666) 113)

Helix; Homosynaptic depression; Identified synapse; Opioid peptide; GABA; Synaptic transmission (Gutiérrez, R. (667) 243)

Naloxone-induced withdrawal
Clonidine; Hypothalamus-pituitary-adrenocortical axis (Gonzalvez, M.L. (647) 199)

Naloxone-precipitated excitatory effect
Etorphine antagonism at excitatory opioid receptor; Morphine bimodal agonist action; Dorsal root ganglion neuron; Action potential shortening vs. prolongation (Shen, K.-F. (636) 286)

Naltrexone
Aspartate; Excitatory amino acid; Glutamate; Locus coeruleus; Microdialysis; Opiate withdrawal (Aghajanian, G.K. (636) 126)

Morphine; Abstinence syndrome; Mouse; Nitric oxide; MK-801; NMDA receptor; L-NMMA (Thorat, S.N. (642) 153)

Proopiomelanocortin; β-Endorphin; γ_3-Melanocyte-stimulating hormone; Opioid antagonism; Hypothalamus (Jaffe, S.B. (648) 24)

Sickness behavior; Lipopolysaccharide; Opiate; Interleukin-1; Infection; Open field; Analgesia; Fever; Rat (Yirmiya, R. (648) 80)

Macronutrient intake; Opioid; Beta-funaltrexamine; Naloxonazine; Nor-binaltorphamine; DALCE; Naltrindole; Food deprivation; 2-Deoxy-D-glucose (Koch, J.E. (657) 191)

Adrenalectomy; Opioid analgesia; Non-opioid analgesia; Corticosterone; Adrenomedullary catecholamine; Adrenomedullary enkephalin; Permissive effect; Chlorisondamine (Sutton, L.C. (663) 19)

Spinal cord; Substance P; Cholecystokinin; Serotonin; Opiate; Excitatory amino acid; Hyperalgesia; CP96345; L 365260; Methysergide; Norbinaltorphimine (Watkins, L.R. (664) 17)

Naltrindole
Butorphanol; Opioid; Feeding; Opioid antagonist; μ Opioid receptor; κ Opioid receptor; δ opioid receptor; Norbinaltorphimine; β-Funaltrexamine (Levine, A.S. (637) 242)

Macronutrient intake; Opioid; Naltrexone; Beta-funaltrexamine; Naloxonazine; Nor-binaltorphamine; DALCE; Food deprivation; 2-Deoxy-D-glucose (Koch, J.E. (657) 191)

L-NAME
Nitric oxide; Hippocampus; Cerebral ischemia; Working memory; Reference memory; Rat (Ohno, M. (634) 173)

Hyperalgesia; Subcutaneous formalin; Tail-flick test; Spinal transection; Dorsolateral funiculus; NMDA; Nitric oxide; APV; Rat (Wiertelak, E.P. (649) 19)

Spinal cord; NMDA; Nitric oxide; Hyperalgesia; Prostaglandin; MK-801; D,L-2-Amino-5-phosphonovaleric acid; Ibuprofen; Acetyl salicylic acid (Wiertelak, E.P. (664) 9)

Nitric oxide; Sleep; Nω-nitro-L-arginine methyl ester; Brain temperature; Rat (Kapás, L. (664) 189)

Methamphetamine; Nitric oxide; Nitric oxide synthase inhibitor (Abekawa, T. (666) 147)

N_1 amplitude-intensity function
Chronic cocaine; N_1 latency-intensity function; Tyrosine hydroxylase (Shivapuja, B.G. (668) 230)

NAN-190
Suprachiasmatic nucleus; Serotonin; 8-Hydroxy-DPAT; Buspirone; Tryptophan; Fos; Light; Circadian rhythm; Hamster (Glass, J.D. (638) 235)

Serotonin; Suprachiasmatic nucleus; Entrainment; Circadian; Light; DPAT; Metergoline; 5-CT; SDZ 216-525; Propranolol; 5-HT_{1A} receptor (Ying, S.-W. (651) 37)

β-Naphthoflavone
Choroid plexus; Endothelium; Food mutagen; P450; Ellipticine (Brittebo, E.B. (659) 91)

Na-pump
Tumor necrosis factor; Interleukin-1; Nervous inhibition; Molluscan neuron (Mimura, Y. (653) 112)

Narcosis
Dopamine; Microdialysis; High pressure; Rat; Striatum (Barthelemy-Requin, M. (667) 1)

Nasal mucosa
Nitric oxide synthase; Blood vessel; Seromucous gland; Epithelium; Immunohistochemistry; Rat (Hanazawa, T. (657) 7)

Nasopharyngeal reflex
Spinal trigeminal nucleus; Rostral ventrolateral medulla; Arterial pressure; c-*fos*; Tyrosine hydroxylase (Gieroba, Z.J. (636) 157)

Natriuretic peptide
C-type natriuretic peptide; Cerebral microvessel; cGMP (Kobayashi, H. (648) 324)

Natural killer cell
Morphine tolerance; Morphine abstinence; Mouse; B-Lymphocyte; T-Lymphocyte; Cytotoxic T-lymphocyte; Cytokine (Bhargava, H.N. (642) 1)

Lipopolysaccharide; Brain inflammation; Glial activation; Macrophage; Major histocompatibility complex antigen; Brain-derived neurotrophic factor (Montero-Menei, C.N. (653) 101)

Natural killer cell activity
Spleen; Ventromedial hypothalmic lesion (Katafuchi, T. (652) 164)

Nausea
Hypothalamic paraventricular nucleus; Oxytocin (Curtis, K.S. (663) 30)

NBQX
AMPA receptor; Kindling; Amygdala; Hippocampus; Antiepileptogenic effect; Anticonvulsant effect; Epilepsy (Namba, T. (638) 36)

Deoxysugar; Glutamate; Central nervous system depression; LY-293558; Autoradiography (Browne, S.E. (641) 10)

Excitatory amino acid; NMDA; AMPA; AP5; CPPene; 7-Chlorokynurenate; D-Serine; CNQX; Neurotransmission (Qume, J.D.M. (649) 43)

Globus pallidus; Subthalamic nucleus; Extracellular recording; MK-801; AMPA; Kainate; NMDA (Soltis, R.P. (666) 21)

NCB20 cell
σ Opioid receptor; Haloperidol; Naloxone; Remoxipride; Antipsychotic; K channel (Morio, Y. (637) 190)

N-channel
FTX; Ca^{2+}-channel; Spermine; ω-Conotoxin; P-channel; Binding; AgaIVA; MVIIC; GVIA (Lundy, P.M. (643) 204)

Necrosis
Amyloid β peptide; Apoptosis; PC12 cell; Nerve growth factor (Behl, C. (645) 253)

Nefiracetam
Nootropics; Aniracetam; Calcium channel; cAMP; G protein; NG108-15 cell (Yoshii, M. (642) 123)

Neglect
Dopamine; Striatum; Edge; Open field; Thigmotaxis; 6-Hydroxydopamine lesion; Rotational behavior; Asymmetry (Sullivan, R.M. (637) 114)

Neocortex
EEG; Hippocampus; Histamine; α-Fluoromethylhistidine; Theta rhythm (Servos, P. (636) 98)

Short-term potentiation; Long-term potentiation; Memory; Paired-pulse inhibition (Racine, R.J. (637) 73)

Long-term potentiation; Long-term depression; Chronic preparation; Memory; Paired-pulse inhibition; Cholinergic; Enriched environment (Racine, R.J. (637) 83)

$GABA_B$ receptor; $GABA_A$ receptor; Serotonin 5-HT_{1A} receptor; Hippocampus; Estros cycle; Steroid hormone; Progesterone; Estrogen (Al-Dahan, M.I. (640) 33)

[^{3}H]QNB binding; Homogenate; Hippocampus; Brainstem; Cerebellum; Traumatic brain injury; Fluid percussion (Lyeth, B.G. (640) 240)

Operant behavior; Nucleus accumbens; Neostriatum; Stereotyped behavior; Perseveration; Hyperactivity; Schizophrenia (Sokolowski, J.D. (642) 20)

Epileptogenesis; Membrane parameter (Szente, M.B. (648) 203)

Calcineurin; Kindling; Rat brain; Hippocampus; Cyclosporin A; FK506; Immunosuppressant (Moia, L.J.M.P. (648) 337)

Quinuclidinylbenzilate; Receptor binding; Homogenate; Hippocampus; Brainstem; Fluid percussion; Traumatic brain injury (Jiang, J.Y. (651) 123)

CREB; Transcription factor; Somatostatin; Development; In situ hybridization; Immunocytochemistry (Imaki, J. (651) 269)

Stress; Perseveration; Aversive motivation; Emotion (Sokolowski, J.D. (651) 293)

Excitatory amino acid neurotransmitter; NMDA; Thyrotropin-releasing hormone; Intracellular recording; In vitro (Kasparov, S. (656) 229)

Mammalian central neuron; Intracellular recording; Synaptic integration; White noise; Hippocampus; Thalamus; Purkinje cell;

Brain slice; Slice culture (Jahnsen, H. (666) 9)

α-Neoendorphin
Microdialysis; Pituitary gland; Circadian rhythm; Naloxone (Konya, H. (665) 130)

Neonatal
Neurotoxicity; Muscarinic acetylcholine receptor; Behavior; Insecticide; Pyrethroid; Bioallethrin (Ahlbom, J. (645) 318)

Hypoxic/ischemic injury; Developmental; Perinatal brain injury (Grafe, M.R. (653) 161)

Neonatal exposure to testosterone
Female rat; Ovariectomy; Pyramidal cell; Parietal cortex; Dendritic branching (Stewart, J. (654) 149)

Neonatal lesion
Cortex; Recovery of function; Cortical graft; Neural transplantation; Frontal lesion (Kolb, B. (647) 15)

Dopaminergic transplant; Neuropeptide Y; Dopaminergic meso-telencephalic pathway; Immunohistochemistry (Abrous, D.N. (656) 169)

Neonatal 6-OHDA-lesioned rat
Dopamine D_1 receptor agonist; Dopamine D_1 receptor priming; Habituation; Locomotor activity (Moy, S.S. (645) 49)

Neonatal propranolol
In vivo dialysis; Noradrenaline overflow; Catecholamine metabolism; α_2-Autoreceptor; Idazoxan (Van Veldhuizen, M.J.A. (646) 19)

Neonatal rat
Thyrotropin-releasing hormone; 5,7-Dihydroxytryptamine; Serotonin; Monosynaptic reflex; Spinal cord (Deshpande, S.B. (655) 263)

Neonate
Blood–brain barrier glucose transporter; Kinetic constant; GLUT1 isoform; Quantitative immunogold electron microscopy; Luminal and abluminal membrane; Suckling; Weanling and adult; Developmental upregulation; Cerebral blood flow; Permeability-surface area product (Cornford, E.M. (663) 7)

Neostigmine
Active sleep; Nucleus pontis oralis; Microiontophoresis; Acetylcholine; Cat (López-Rodríguez, F. (649) 271)

Adrenocorticotropin; Growth hormone; Hypothalamus; Monoamine; Rat (Gotoh, M. (659) 259)

Neostriatum
Accumbens; Catalepsy; Dopamine; GABA; Haloperidol; Microdialysis; Tolerance (Osborne, P.G. (634) 20)

Acetylcholine; Basal nucleus of Meynert; Dementia; Diagonal band; Inbred strain; Substantia innominata; Septum (Bentivoglio, A.R. (637) 181)

Operant behavior; Neocortex; Nucleus accumbens; Stereotyped behavior; Perseveration; Hyperactivity; Schizophrenia (Sokolowski, J.D. (642) 20)

NMDA; AMPA; Kainate; Metabotropic; Decortication (Wüllner, U. (647) 209)

Basal ganglia; Motor cortex; Caudate; Putamen; Pyramidal tract (Ryan, L.J. (651) 241)

Serotonin; Norepinephrine; Apomorphine; Microdialysis; Parkinson's disease (Mandel, R.J. (653) 57)

Lesion; Nicotine; Methylcarbamylcholine; *N*-Propylnorapomorphine; Protection; Dopamine (Janson, A.M. (655) 25)

Sensory neglect; Spontaneous behavior; Turning; Thigmotactic scanning; Open-field; Parkinsonism; 6-Hydroxydopamine; Substantia nigra; Dopamine metabolism (Fornaguera, J. (664) 178)

Nerve
Protein transport; Organelle transport; Transport reversal; Reversal time (Snyder, R.E. (635) 49)

Nerve cell growth
Vasopressin; Hippocampus; Calcium; Inositol trisphosphate; Vasopressin V_1 receptor; Neural peptide; Learning and memory (Brinton, R.D. (661) 274)

Nerve conduction velocity
Dorsal root ganglion; Sacral spinal cord; Dorsal gray commissure; Horseradish peroxidase (Kawatani, M. (646) 26)

Nerve degeneration
Rat sciatic nerve; Nerve regeneration; Nerve grafting; Nerve repair; Schwann cell (Danielsen, N. (666) 250)

Nerve fiber
L-DOPA; Dental pulp; Rat; Measurement; Immunolocalization (Inoue, K. (657) 307)

Nerve grafting
Rat sciatic nerve; Nerve regeneration; Nerve degeneration; Nerve repair; Schwann cell (Danielsen, N. (666) 250)

Nerve growth factor
Acetyl-L-carnitine; Choline acetyltransferase; Fimbria-fornix transection; Aging (Piovesan, P. (633) 77)

Nerve growth factor mRNA; Neurotrophin; Alzheimer's disease; L929 fibroblast (Saporito, M.S. (633) 189)

Brain-derived neurotrophic factor; Neurotrophin-3; Analgesia; Periaqueductal gray; Spinal cord; Serotonin; Naloxone (Siuciak, J.A. (633) 326)

Neuropathy; Treatment; Rat (Apfel, S.C. (634) 7)

PC12 cell; Ruffle; Actin (Sano, M. (639) 115)

Nucleus basalis magnocellularis; Brain-derived neurotrophic factor; p75 NGF receptor; In situ hybridization; Choline acetyl transferase (Dekker, A.J. (639) 149)

Cisplatin; Taxol; Vincristine; Dorsal root ganglion; Rat (Konings, P.N.M. (640) 195)

Cholinergic neuron; Target-derived neurotrophic factor; Alzheimer's disease; Neuronal survival (Akaneya, Y. (642) 38)

Ischemia; Excitotoxin; Basic fibroblast growth factor; NMDA (Yamada, M. (643) 173)

Amyloid β peptide; Apoptosis; Necrosis; PC12 cell (Behl, C. (645) 253)

Growth factor; Retroviral vector; Rat retina (Castillo, Jr., B. (647) 30)

Senescence-accelerated mouse; Neurotrophin; Development; Hippocampus; mRNA (Kaisho, Y. (647) 139)

Acetylcholine; Basal forebrain; Ischemia; Neurodegeneration; Nucleus basalis of Meynert (Liberini, P. (648) 1)

Action potential; Membrane current; Down's syndrome; Dorsal root ganglion; Trisomy 16 mouse; Trisomy 21 (Coan, E.J. (650) 161)

Alamar blue; Brain-derived neurotrophic factor; Calcium; Glucose deprivation; Glutamate (Cheng, B. (650) 331)

Neurotrophin; Neuropeptide Y; Vasoactive intestinal polypeptide; Hippocampal formation; Cerebral cortex (Lapchak, P.A. (654) 1)

Hippocampus; Hypophagia; Neurotrophin; Hypothalamus; Bombesin; Neuropeptide Y; Cholecystokinin; Brain-derived neurotrophic factor (Lapchak, P.A. (655) 12)

Low affinity nerve growth factor receptor; Hypertension; Nucleotide sequence; Point mutation; Spontaneously hypertensive rat; Signal peptide (Nemoto, K. (655) 267)

PC12D cell; Neurite; Ruffle; Growth cone; Chemotaxis (Sano, M. (656) 210)

Astrocyte; Nerve growth factor receptor; Prenatal exposure to ethanol (Vallés, S. (656) 281)

Transgenic astrocyte; Adrenal chromaffin cell; Transplantation; Parkinson's disease (Cunningham, L.A. (658) 219)

MPP^+; PC12 cell; S6 protein; Apoptosis (Mutoh, T. (661) 51)

Ciliary neurotrophic factor; PC12 cell; Pheochromocytoma (Zhong, W. (661) 56)

PC12 cell; Neuronal differentiation; TrkA; Tyrosine phosphorylation (Yamada, M. (661) 137)

Neuroblast; Growth factor; Neurogenesis; Cell division; Cell death; Insulin (Pincus, D.W. (663) 51)

Acetylcholine synthesis; Acetylcholine release; Calcium; Choline acetyltransferase; cAMP; Septal cell (Suzuki, T. (665) 311)

Neurotrophin-3; Enzyme immunoassay; Development; β-Galactosidase; Hippocampus (Kaisho, Y. (666) 143)

Nerve growth factor mRNA
Nerve growth factor; Neurotrophin; Alzheimer's disease; L929 fibroblast (Saporito, M.S. (633) 189)

Nerve growth factor (NGF)
Neural transplantation; MPTP; Adrenal medulla; Peripheral nerve; Cograft; Parkinson's disease (Date, I. (637) 50)

Nerve growth factor receptor
AF64A; Septohippocampal system; Cholinergic lesion; Spatial learning and memory; Acetylcholinesterase depletion; Calcium channel blocker (Maier, D.L. (648) 281)

Astrocyte; Nerve growth factor; Prenatal exposure to ethanol (Vallés, S. (656) 281)

Nerve injury
Pain; Neuropathic pain; Autotomy; MK-801; Dizocilpine (Baños, J.E. (636) 107)

Mechanoreceptor; Neuroma; Myelinated fiber; Tinel sign; Degeneration (Koschorke, G.-M. (641) 99)

Dorsal horn; Rat; Primary sensory neuron; Plasticity; Spinal cord; Postsynaptic dorsal column pathway; Immediate early gene (Molander, C. (644) 74)

Vestibular efferent; Lateral superior olivary nucleus; Immunohistochemistry (Ohno, K. (644) 135)

Dorsal root ganglion; *trkB*; Neurotrophin; Immunocytochemistry (Foster, E. (659) 267)

Nerve regeneration
Degeneration; Peripheral nerve; Silicone; Implant; Matrix; Schwann cell (Zhao, Q. (633) 97)

Spinal cord repair; Neural transplantion; Brachial plexus; Plasticity (Bertelli, J.A. (644) 150)

Axoplasmic transport; 2D electrophoresis; Protein release; Exocytosis; Vagus nerve (Remgård, P. (663) 326)

Rat sciatic nerve; Nerve degeneration; Nerve grafting; Nerve repair; Schwann cell (Danielsen, N. (666) 250)

Nerve repair
Rat sciatic nerve; Nerve regeneration; Nerve degeneration; Nerve grafting; Schwann cell (Danielsen, N. (666) 250)

Nerve terminal
Calcium channel; Neurohypophysis; Calcium channel blocker; Funnel-web spider toxin; ω-Conotoxin GVIA; Tetrandrine (Wang, G. (663) 215)

Nerve transection
Regeneration; Ciliary neurotrophic factor; Axonal elongation; Growth cone formation (Sahenk, Z. (655) 246)

Single unit; Somatosensory cortex; Deafferentation; Cortical reorganization; Electrophysiology; Chronic recording (Salimi, I. (656) 263)

Endoneurial capillary; Regeneration; Sciatic nerve; Angiogenesis; Rat (Podhajsky, R.J. (662) 88)

Nervous inhibition
Tumor necrosis factor; Interleukin-1; Na-pump; Molluscan neuron (Mimura, Y. (653) 112)

Nervous system
Acetylcholine; Trisomy (Fiedler, J.L. (658) 27)

Cytokine receptor; Human immunodeficiency virus; Phycoerythrin-conjugated; Laser scanning confocal microscopy (Masliah, E. (663) 1)

Neural
Vomeronasal organ; Calbindin-D28k; Calcium binding protein; Neuroendocrine; Immunocytochemistry (Johnson, E.W. (638) 329)

Neural cell differentiation
Human neurodevelopment; Fetal CNS; Signal transduction (Larocca, J.N. (653) 9)

Neural control of respiration
Pontine respiratory group; Kölliker-Fuse nucleus; Intracellular recording; In vivo; Cat (Dick, T.E. (636) 259)

Neural crest
Reeler mutant mouse; Neurological mutant mouse; Migration; Motor trigeminal nucleus; Trigeminal ganglion (Terashima, T. (666) 31)

Neural degeneration
Aging; Retina; Fischer 344 rat; Photoreceptor; Peripheral degeneration (DiLoreto Jr., D. (647) 181)

Neural network
Glutamate; GABA; Hippocampal slice; Oscillator; Seizure; Field potential; EEG; Model (Schneiderman, J.H. (633) 105)

Neural oscillation
Hippocampus; Rhythmical slow activity; Theta; Electroencephalogram; Coherence; Phase; Commissural connection (Kocsis, B. (660) 341)

Neural peptide
Vasopressin; Hippocampus; Calcium; Inositol trisphosphate; Vasopressin V_1 receptor; Learning and memory; Nerve cell growth (Brinton, R.D. (661) 274)

Neural plasticity
Kindling; Transfer kindling; Epilepsy; Entorhinal cortex; Perforant path; Dentate gyrus (Spiller, A.E. (635) 130)

Kindling; Transfer kindling; Epilepsy; Entorhinal cortex; Perforant path; Dentate gyrus (Spiller, A.E. (635) 139)

Norepinephrine; β-Receptor; cAMP; Long-term potentiation; Perforant path; Hippocampus (Frizzell, L.M. (663) 173)

Neural processing
Postsynaptic inhibition; Bicuculline; $GABA_B$ antagonist; Spike facilitation; Input–output curve; Presynaptic facilitation (Leung, L.S. (650) 75)

Neural stimuli
Amygdaloid lesion; Median eminence; CRF-41; ACTH; Corticosterone (Feldman, S. (658) 21)

Neural transplantation
Dopamine; Noradrenaline; 6-Hydroxydopamine; Tyrosine hydroxylase; Fiber outgrowth (Nikkhah, G. (633) 133)

MPTP; Adrenal medulla; Peripheral nerve; Cograft; Nerve growth factor (NGF); Parkinson's disease (Date, I. (637) 50)

Neuropathic pain; Hyperalgesia; Nitric oxide; Chromaffin cell; Spinal cord (Hama, A.T. (640) 345)

Cortex; Neonatal lesion; Recovery of function; Cortical graft; Frontal lesion (Kolb, B. (647) 15)

Parkinson's disease; Dopamine; Cryopreservation; Diencephalon; Mesencephalon; Human embryo (Frodl, E.M. (647) 286)

Chromaffin cell; Hyperalgesia; Naloxone; Peripheral neuropathy; Phentolamine (Hama, A.T. (651) 183)

Spatial memory; Fimbria-fornix lesion; Long-term potentiation; Epileptiform activity; Hippocampus; Rat (Kleschevnikov, A.M. (656) 221)

Neural transplantion
Nerve regeneration; Spinal cord repair; Brachial plexus; Plasticity (Bertelli, J.A. (644) 150)

Neurite
Nerve growth factor; PC12D cell; Ruffle; Growth cone; Chemotaxis (Sano, M. (656) 210)

Neurite branching
Basic fibroblast growth factor; Neurite elongation; Tyrosine kinase; Protein kinase C; Cultured hippocampal neuron (Aoyagi, A. (661) 117)

Neurite elongation
Basic fibroblast growth factor; Neurite branching; Tyrosine kinase; Protein kinase C; Cultured hippocampal neuron (Aoyagi, A. (661) 117)

Neurite extension
Fibroblast growth factor; Melanotropic hormone; Rat spinal cord; Dissociated cell culture; Neuronal survival (Peulve, P. (654) 319)

Neurite growth
Adhesion molecule; Laminin (Rahemtulla, N. (642) 221)

Neurite outgrowth
Myenteric plexus; Neuronal survival; Striatal neuron; Tetrodotoxin (Höpker, V.H. (648) 332)

Neurite sprouting
Transforming growth factor-β; Neuronal survival; Process elongation; Hippocampal neuron; Cell culture (Ishihara, A. (639) 21)

Neuritic plaque
Synapse protein; Alzheimer's disease; Lewy body disease; Hippocampal-entorhinal formation; Confocal laser-scanning microscopy (Wakabayashi, K. (667) 24)

Neuritic process orientation
Chemically patterned substrate; Self-assembled monolayer; Electrical stimulation; Neuroblastoma cell; Cell culture (Matsuzawa, M. (667) 47)

Neuroactivesteroid
Progesterone; Allopregnanolone; Steroid mechanism; Non-genomic; Membrane; Tail flick latency; Nociception (Frye, C.A. (643) 194)

Neuroactive steroid
GABA receptor; Neurosteroid; Corticosterone; Amphibian (Orchinik, M. (646) 258)

Neurobiotin
Masseter motoneuron; Bilateral inhibitory postsynaptic spike potential; Supratrigeminal; Inhibitory premotor neuron; Bifurcating axon; Spike-triggered averaging; Cat (Kamogawa, H. (639) 85)

Respiratory neuron; Ventral respiratory group; Phrenic motoneuron; Respiratory control; Crossed-phrenic phenomenon (Lipski, J. (640) 171)

Brain slice; Electrotonic coupling; Hypothalamus; Intracellular injection; Lucifer yellow (Hatton, G.I. (650) 63)

Neuroblast
Growth factor; Neurogenesis; Cell division; Cell death; Nerve growth factor; Insulin (Pincus, D.W. (663) 51)

Neuroblastoma
Cocaine; Benzoylecgonine; Glioma; Neuron; Glia; Cytotoxicity; Toxicity; Morphology (Lin, Y. (643) 108)

Corticotropin-releasing factor; Radioimmunoassay; HPLC; Forskolin; BE (2)-M17 (Parkes, J.W.K.D.G. (654) 159)

Calcium current; Albumin (Schmitt, H. (656) 375)

Human; Nucleoside transport; Nitrobenzylthioinosine; Formycin B (Jones, K.W. (660) 104)

TRH; Cell line; IMR32 pyroglutamyl-glutamyl-prolineamide; Neuron; Differentiation (Rondeel, J.M.M. (665) 262)

Neuroblastoma cell
Ca^{2+}-channel; Nimodipine; Amyloid β-peptide; Alzheimer's disease; Patch clamp (Davidson, R.M. (643) 324)

Chemically patterned substrate; Self-assembled monolayer; Neuritic process orientation; Electrical stimulation; Cell culture (Matsuzawa, M. (667) 47)

Neuroblastoma-glioma hybrid (NG108-15) cell
Non-specific cationic current; Cytoplasmic free Ca^{2+}; Perforated patch clamp technique; Fura-2 fluorometry (Tokutomi, N. (657) 202)

Neuroblastoma growth inhibitor
Human NGIF; Astrocytoma; Neurotrophic factor; Neuron–glia interaction (Eksioglu, Y.Z. (644) 282)

Neuroblastoma P_2
Neuronal expression; Cholinergic phenotype; Catecholaminergic phenotype; cAMP (Kentroti, S. (651) 1)

Neurodegeneration
Purine; Adenosine; Xanthine; 1,3-Dipropyl-8-cyclopentylxanthine; Neuroprotection; Kainic acid (Macgregor, D.G. (644) 339)

Acetylcholine; Basal forebrain; Ischemia; Nerve growth factor; Nucleus basalis of Meynert (Liberini, P. (648) 1)

Alkaloid; Alzheimer's disease; Calcium; Free radical; Fura-2; Neurotrophic factor; Phosphorylation (Goodman, Y. (650) 170)

Alzheimer's disease; Amyloid peptide; Calcium; Dichlorofluorescin; Free radical; Indomethacin; Iron-catalyzed oxidation; Lipoxygenase (Goodman, Y. (654) 171)

Scrapie; Cytokine; Prostaglandin; Lipocortin; Astrocyte; Mouse (Williams, A.E. (654) 200)

Neurofibrillary tangle; Alzheimer's disease; Membrane skeleton protein; Protein 4.1 (Sihag, R.K. (656) 14)

Calcium transport; Calcium permeability; Plasma membrane; Calcium homeostasis; Brain aging (Colvin, R.A. (665) 192)

Dementia; Alzheimer's disease; Nucelar magnetic resonance spectroscopy; *N*-Acetyl aspartate; Imaging (Kwo-On-Yuen, P.F. (667) 167)

Astrocyte; Calcium; Glutamate; Glial fibrillary acidic protein; Kainic acid; Limbic seizure; Neurotoxicity (Gramsbergen, J.-B.P. (667) 216)

Neurodegenerative disease
Lysosomal hydrolase; Amyloid; Lipofuscin; Senile plaque; Aging (Cataldo, A.M. (640) 68)

Neurodegenerative disorder
Aluminum neurotoxicity; Alzheimer's disease; Iron-binding protein; Lactoferrin; Transferrin (Leveugle, B. (650) 20)

Neurodevelopment
Neurotrophic factor; Transferrin; Hippocampus; Cerebellum; Myelin; Iron (Dickinson, T.K. (635) 169)

Neuroendocrine
Vomeronasal organ; Calbindin-D28k; Calcium binding protein; Neural; Immunocytochemistry (Johnson, E.W. (638) 329)

Action potential; Calcium-dependent potassium current; Chromaffin; Repolarization; Whole-cell voltage-clamp (Pancrazio, J.J. (668) 246)

Neuroendocrine cell
α-Bungarotoxin; Nicotinic acetylcholine receptor; Small cell lung carcinoma (Quik, M. (655) 161)

Neuroendocrine regulation
Vasopressin; Cerebrospinal fluid; Median eminence; Pituitary gland; Immunocytochemistry (Cloft, H.J. (639) 233)

Neurofibrillary tangle
Butyrylcholinesterase; Neuropil thread; Paired helical filament (Gómez-Ramos, P. (640) 17)

Amyotrophic lateral sclerosis; Corticocortical connection; Dementia; Guam; Parkinsonism (Hof, P.R. (650) 107)

Protein phosphatase; Proline-directed protein kinase; Immunocytochemistry; Neuron; Alzheimer's disease (Pei, J.-J. (655) 70)

Alzheimer's disease; Membrane skeleton protein; Protein 4.1; Neurodegeneration (Sihag, R.K. (656) 14)

Neurofilament
Immunohistochemistry; Wallerian degeneration; Retinal fiber; Optic tract (Meller, D. (648) 162)

Iminodipropionitrile; Intermediate filament; Neuropathology; Neuropathy; Visceral nerve (Ferri, G.-L. (657) 315)

Neurofilament gene expression
β-Tubulin; Regeneration; Dorsal root ganglion; Axotomy (Jiang, Y.Q. (637) 233)

Neurofilament 210 kDa
2-Mercaptoethanol; Human serum; Cell survival; Oxidative stress; Fetal mouse brain (Katayama, M. (656) 409)

Neurofilament protein
Cerebellum; Microtubule; Intracellular transport; Neuronal discharge; Electrophysiology; Electron microscopy (Seil, F.J. (636) 87)

Cytoskeleton; Axon; Poisson distribution; Cluster analysis; Statistical model; Probability; Space-time clustering (Hsieh, S.-T. (642) 316)

Neurofunctional teratology
Diazepam; Sexual dimorphism; Accessory olfactory bulb; Vomeronasal system; $GABA_A$ receptor (Pérez-Laso, C. (634) 1)

Neurogenesis
Neuroblast; Growth factor; Cell division; Cell death; Nerve growth factor; Insulin (Pincus, D.W. (663) 51)

Neurogenic vasodilatation
Parasympathetic; Flow metabolism coupling; Cat; Cerebrovascular; Headache (Goadsby, P.J. (647) 192)

Neuro–glia interaction
Mutant mouse; Serotonin; Glial fibrillary acidic protein; Immunocytochemistry; High-performance liquid-chromatography (Ueda, S. (633) 275)

Mutant mouse; S-100β; Serotonin; Growth factor; Cell culture (Ueda, S. (633) 284)

Neurohypophysis
Neurophysin; Somatic mutation; Hypothalamus; Aging (Van Leeuwen, F.W. (635) 328)

Guanylate cyclase; Ultracytochemistry; Rat atrial natriuretic factor; Porcine brain natriuretic peptide; Rat (Rambotti, M.G. (644) 52)

Endothelin; Gestation; Hypothalamus; Oxytocin; Pregnancy (Horwitz, M.J. (648) 59)

Cholecystokinin; Immunohistochemistry; WGA-HRP; Hypothalamus; Rat (Liu, S. (651) 7)

Calcium channel; Nerve terminal; Calcium channel blocker; Funnel-web spider toxin; ω-Conotoxin GVIA; Tetrandrine (Wang, G. (663) 215)

Neurokinin A
Substance P; Neurokinin B; Striate cortex; Immunocytochemistry (Gu, Q. (640) 336)

Tachykinin; Hypothalamus; Testosterone; Neuropeptide Y; Median eminence; Arcuate nucleus (Kalra, P.S. (653) 285)

Cytokine; Tachykinin; Interleukin-1; Hypothalamus; Luteinising hormone; Castration (Kalra, P.S. (662) 178)

Neurokinin B
Substance P; Neurokinin A; Striate cortex; Immunocytochemistry (Gu, Q. (640) 336)

Neurokinin NK_1 receptor
Sendide; Morphine; Capsaicin; Spinal cord; Mouse (Sakurada, T. (649) 319)

Neuroleptic
Tardive dyskinesia; Vacuous chewing movement; Dopamine; Dopamine receptor; Autoradiography (Knable, M.B. (646) 217)

Neurological mutant mouse
Reeler mutant mouse; Migration; Motor trigeminal nucleus; Neural crest; Trigeminal ganglion (Terashima, T. (666) 31)

Neurological mutation
Hotfoot; Development; Ataxia; Monoamine; Amphetamine; Motor behavior; Thermoregulation (Draski, L.J. (645) 69)

Neurologic deficit
Focal cerebral infarction; Lipid peroxidation; Tirilazad mesylate; Neuroprotection; Penumbra (Park, C.K. (645) 157)

Neuroma
Mechanoreceptor; Nerve injury; Myelinated fiber; Tinel sign; Degeneration (Koschorke, G.-M. (641) 99)

Neuromagnetism
Brain plasticity; Sensory cortex; Evoked field (Rossini, P.M. (642) 169)

Auditory cortex; Tonotopic; Event-related field; Magnetic source imaging; Interstimulus interval (Cansino, S. (663) 38)

Neuromedin B
Bombesin; Gastrin-releasing peptide; Dorsal raphe; Suprachiasmatic nucleus; Periventricular; Single cell; Action potential (Pinnock, R.D. (653) 119)

Neuromedin C
Phyllolitorin analogue; Grooming behavior; Scratching; Bombesin antagonist (Masui, A. (637) 331)

Neuromodulation
Cerebellum; Purkinje cell; Muscarinic receptor; GABA (Andre, P. (637) 1)

Substance P; α_2-Adrenoceptor; Guanabenz; Nucleus reticularis gigantocellularis; Rat (Len, W.-B. (638) 227)

Acetylcholine; Frequency depression; Glutamatergic synapse; Nucleus accumbens; Presynaptic; Rhythmicity; Stimulus rate (Pennartz, C.M.A. (645) 231)

Leech neuron; Okadaic acid; Calyculin A; Serine-threonine phosphatase; Calcium imaging (Kleinhaus, A.L. (650) 326)

Peptide; Second messenger; Invertebrate; cAMP; Feeding; Buccal; cAMP-dependent protein kinase; Cotransmitter (Hooper, S.L. (657) 337)

Dopamine; Horizontal cell; Gap junction (McMahon, D.G. (659) 110)

Thyrotropin-releasing hormone; Resting K^+ conductance; Phorbol ester; Protein kinase C; IP_3; BAPTA; EGTA; Intracellular calcium; Forskolin; Adenylate cyclase (Bayliss, D.A. (668) 220)

Neuromuscular
Quantum; Anandamide; Cannabinoid; cAMP; Synapse (Van der Kloot, W. (649) 181)

Neuromuscular blocker
Nicotinic acetylcholine receptor; Desensitization; Non-contractile calcium (Tsuneki, H. (650) 299)

Neuromuscular junction
Neurotransmitter release; Potassium channel; Calcium channel; Synaptic current (Miralles, F. (641) 279)

Miniature endplate current; Synaptic vesicle; Acetylcholine; Ammonium ion; pH (Prior, C. (664) 61)

Neuromuscular transmission
Quantal release; Endplate potential; Acetylcholine; Adrenocorticotropin (Davies, D.A. (637) 328)

Neuron
Alcohol; Purkinje neuron; Development; Calcium current; Fetal alcohol syndrome; Central nervous system (Gruol, D.L. (634) 283)

Kallikrein; Kallikrein–kinin system; Rat brain; Cerebral cortex; Brainstem (Kizuki, K. (634) 305)

Terminin; Brain; Aging; Glia (Schipper, H.M. (635) 224)

Hemoglobin; Developmental regulation; Free radical; Neuronal degeneration (Ohyagi, Y. (635) 323)

Lysosome; Dense bodies; Leupeptin; Protease inhibitor; Amyloid precursor protein; Alzheimer's disease (Hajimohammadreza, I. (640) 25)

Astrocyte; Cerebral ischemia; Compartmentation; Glia; ^{31}P NMR spectroscopy; pH (Sunagawa, S. (641) 328)

Cocaine; Benzoylecgonine; Neuroblastoma; Glioma; Glia; Cytotoxicity; Toxicity; Morphology (Lin, Y. (643) 108)

Brain; Central nervous system; Aging (Yang, G. (644) 188)

ATP; Glucocorticoid; Hippocampus; Hypoglycemia; Hypoxia; Neuron death; Stress (Lawrence, M.S. (646) 303)

Choline; β-Amyloid; Alzheimer's disease; Carrier; Leakage; Acetylcholine; Brain; PC12 cell (Galdzicki, Z. (646) 332)

β-Endorphin; Cell culture; Hypothalamus; Adenylyl cyclase; Glucocorticoid (Yang, Z. (648) 99)

Programmed cell death; Protooncogene; Glia; Tissue culture; Immunocytochemistry; Immunoblotting (Mizuguchi, M. (649) 197)

Capsaicin; Proton; Irritant; Chemosensitivity; Sensitization; Patch clamp; Somatosensory (Martenson, M.E. (651) 143)

Astrocyte; Fetal human brain culture; Heat shock protein 72; Heat stress; Microglia; Oligodendrocyte (Satoh, J.-i. (653) 243)

Protein phosphatase; Proline-directed protein kinase; Neurofibrillary tangle; Immunocytochemistry; Alzheimer's disease (Pei, J.-J. (655) 70)

Gene expression; Growth-associated gene; GAP-43; Stathmin; p19; MAP2; α1-Tubulin; Plasticity; Brain; In situ hybridization (Himi, T. (655) 177)

Astrocyte; Proliferation; Differentiation; Humoral factor; Cell culture (Ohashi, M. (655) 255)

Epidermal growth factor; Transforming growth factor-α; Receptor; Medial septum; Astrocyte; Oligodendrocyte; Microglia (Mazzoni, I.E. (656) 115)

Synapse formation; Ca^{2+}-oscillation; Astrocyte; Co-culture (Nakanishi, K. (659) 169)

Cerebral endothelial cell; Nitric oxide; NADPH-diaphorase; Neuropathology; Soman (Bouchaud, C. (660) 249)

Apoptosis; Ultrastructure; β-Amyloid; Cell culture (Watt, J.A. (661) 147)

CDK5; cdc2-related protein kinase; Cyclin-dependent protein kinase; CDK; In situ hybridization; Development (Ino, H. (661) 196)

Glutamate transporter; cDNA; Sequence; Hybridization, in situ; Human brain (Shashidharan, P. (662) 245)

Migration; Development; Embryo; Receptor (Behar, T.N. (664) 155)

TRH; Cell line; Neuroblastoma; IMR32 pyroglutamyl-glutamyl-prolineamide; Differentiation (Rondeel, J.M.M. (665) 262)

Neuron activity
Neuropeptide; Sympathetic preganglionic neuron; Neuropeptide turnover; Stellate ganglion; Neurotensin synthesis (Maher, E. (640) 126)

Neuronal calcium channel
Autoradiography; Conopeptide; ω-Conotoxin; SNX-111 (ω-MVIIA) (Gohil, K. (653) 258)

Neuronal cell
5-α-Reductase; Progesterone; Glial cell; Rat; Culture (Melcangi, R.C. (639) 202)

Astrocyte; Culture system; Humoral factor; Glutamate; Cytotoxicity; Protection (Amano, S. (645) 347)

Neuronal cell death
Etoposide; Programmed cell death; CNS neuron; Cycloheximide; Actinomycin D (Nakajima, M. (641) 350)

ADF; Thioredoxin; Glutathione; Glial cell (Hori, K. (652) 304)

Neuronal cell line
Hippocampus; SV40 large T antigen (Eves, E.M. (656) 396)

Neuronal culture
Tyrosine hydroxylase; Olfactory bulb; Dopamine; Enkephalin; Naloxone; Nimodipine (McMillian, M.K. (658) 105)

Neuronal cytoskeleton
Brain spectrin; Cerebellum; Erythroid spectrin; Non-erythroid spectrin; Polarization; Spectrin isoform (Clark, M.B. (663) 223)

Neuronal cytotoxicity
Na^+,K^+-ATPase inhibitor; Ouabain; Melittin; Erythrosin B; Zinc; Acetylcholinesterase (Lees, G.J. (649) 225)

Neuronal damage
Naftidrofuryl oxalate; Serotonin 5-HT_2 antagonist; Cerebral blood flow; Gerbil; Cerebral ischemia (Fujikura, H. (636) 103)

Forebrain ischemia; *R*-Phenylisopropyladenosine; Amino acid release; Microdialysis; Behavior; Rat (Héron, A. (641) 217)

Kainate; Neurotoxicity; Protection; Convulsion; Zinc depletion (Pohle, W. (644) 297)

Neuronal death
Mongolian gerbil; Rat; Ischemic depolarization; Experimental ischemia; Hippocampal slice; Anoxia (Stittsworth Jr., J.D. (649) 353)

Neuronal degeneration
Hemoglobin; Neuron; Developmental regulation; Free radical (Ohyagi, Y. (635) 323)

Neuronal differentiation
PC12 cell; Nerve growth factor; TrkA; Tyrosine phosphorylation (Yamada, M. (661) 137)

Neuronal discharge
Cerebellum; Microtubule; Neurofilament protein; Intracellular transport; Electrophysiology; Electron microscopy (Seil, F.J. (636) 87)

Neuronal discharge pattern
Response averaging; Discharge frequency (Johnson, J.L. (666) 125)

Neuronal expression
Neuroblastoma P_2; Cholinergic phenotype; Catecholaminergic phenotype; cAMP (Kentroti, S. (651) 1)

Neuronal firing
Circadian rhythm; Suprachiasmatic nucleus; Substance P; Glutamate (Shirakawa, T. (642) 213)

Neuronal loss
Ischemia; 1,3-Butanediol; Ketone body; Protection; Hippocampus; CA1 (Sims, N.R. (662) 216)

Neuronal marker
Chondroitin sulfate; GABA; Immunohistochemistry; Parvalbumin; Calbindin (Yasuhara, O. (635) 269)

Neuronal morphology
Basal ganglia; Globus pallidus; *Phaseolus vulgaris*-leucoagglutinin; Anterograde tracing (Rajakumar, N. (651) 332)

Neuronal network
Positron emission tomography; Regional cerebral blood flow; Somatosensory discrimination; Correlation analysis (Kawashima, R. (663) 251)

Neuronal nicotinic receptor subunit
Mouse N1E-115 neuroblastoma cell; Whole-cell voltage clamp; Acetylcholine; Cytisine; Nicotine; Bungarotoxin (Zwart, R. (654) 312)

Neuronal plasticity
Histamine H_3 receptor; Receptor autoradiography; Unilateral enucleation; Visual system; Superior colliculus (Nakagawa, Y. (643) 74)

Neurotrophic factor; Hippocampal formation; Gene expression; In situ hybridization (Gwag, B.J. (647) 23)

Protein kinase C subspecies; Kindling; Epilepsy; Hippocampus; Hydroxylapatite column (Ono, M. (660) 27)

Neuronal reconstruction
CA1 pyramidal cell; Kainate lesion; Intracellular recording and labeling; Neuronal structure; Morphometry; Electrotonic modelling (Pyapali, G.K. (652) 279)

Neuronal regeneration
Striatal graft; Allograft; Cell fate; Huntington's disease; DARPP-32; Calbindin; Acetylcholinesterase; Tyrosine hydroxylase (Deacon, T.W. (668) 211)

Neuronal structure
CA1 pyramidal cell; Kainate lesion; Intracellular recording and labeling; Neuronal reconstruction; Morphometry; Electrotonic modelling (Pyapali, G.K. (652) 279)

Neuronal survival
Transforming growth factor-β; Neurite sprouting; Process elongation; Hippocampal neuron; Cell culture (Ishihara, A. (639) 21)

Cholinergic neuron; Target-derived neurotrophic factor; Nerve growth factor; Alzheimer's disease (Akaneya, Y. (642) 38)

Myenteric plexus; Neurite outgrowth; Striatal neuron; Tetrodotoxin (Höpker, V.H. (648) 332)

Fibroblast growth factor; Melanotropic hormone; Rat spinal cord; Dissociated cell culture; Neurite extension (Peulve, P. (654) 319)

Neuron death
ATP; Glucocorticoid; Hippocampus; Hypoglycemia; Hypoxia; Neuron; Stress (Lawrence, M.S. (646) 303)

Neuron–glia interaction
Human NGIF; Astrocytoma; Neuroblastoma growth inhibitor; Neurotrophic factor (Eksioglu, Y.Z. (644) 282)

Cerebral ischemia; Ischemic tolerance; Astroglia; Microglia; Immunohistochemistry; Hippocampus; Gerbil (Kato, H. (664) 69)

Neuron survival
3,5,3′-L-Triiodothyronine; Embryonic brain; Septum pellucidum; Axon elongation; Primary culture (Filipčik, P. (647) 148)

Neuropathic pain
Pain; Autotomy; MK-801; Dizocilpine; Nerve injury (Baños, J.E. (636) 107)

Hyperalgesia; Nitric oxide; Chromaffin cell; Neural transplantation; Spinal cord (Hama, A.T. (640) 345)

Allodynia; Hyperalgesia; Magnesium therapy; Peripheral neuropathy (Xiao, W.-H. (666) 168)

Neuropathology
Dystrophic neurite; Tau; Paired helical filament; Argentophilia; Immunocytochemistry; Alzheimer's disease (Su, J.H. (637) 37)

Iminodipropionitrile; Intermediate filament; Neurofilament; Neuropathy; Visceral nerve (Ferri, G.-L. (657) 315)

Cerebral endothelial cell; Nitric oxide; NADPH-diaphorase; Neuron; Soman (Bouchaud, C. (660) 249)

Neuropathy
Nerve growth factor; Treatment; Rat (Apfel, S.C. (634) 7)

Iminodipropionitrile; Intermediate filament; Neurofilament; Neuropathology; Visceral nerve (Ferri, G.-L. (657) 315)

Neuropeptide
Protein trafficking; Proteolytic processing; Exocrine gland; Egg-laying behavior (Paganetti, P. (633) 53)

Immunocytochemistry; Autoradiography; Transmitter uptake; Classical transmitter; Colocalization (Watt, C.B. (634) 317)

Locust; Fly; Neurotensin; Insect visual system; Medulla; Retina (Ammermüller, J. (636) 40)

Glucocorticoid receptor; Immunocytochemistry; Spinal ganglion; Primary sensory neuron (DeLeón, M. (636) 338)

Age; Circadian; Djungarian hamster; Hypothalamus; Immunocytochemistry; *Phodopus sungorus*; Rhythm; Photoperiod; Sex; Substance P; Suprachiasmatic nucleus (Reuss, S. (638) 189)

Sympathetic preganglionic neuron; Neuropeptide turnover; Stellate ganglion; Neurotensin synthesis; Neuron activity (Maher, E. (640) 126)

GABA; Calcium binding protein; Nitric oxide synthase; Colocalization (Kubota, Y. (649) 159)

Antidromic activation; Autoradiography; Biocytin; Brainstem slice; Non-specific current; Synaptic current; Oxytocin; Voltage clamp (Palouzier-Paulignan, B. (650) 117)

FMRFamide; CNS; Sensory afferent; Chemoreception; Immunocytochemistry; Crustacean; Decapod (Schmidt, M. (653) 315)

Angiotensin II; Arginine-vasotocin; Central nervous system; Heart rate; Blood pressure; Angiotensin AT_1 receptors; Trout (Le Mevel, J.-C. (654) 216)

Neuropeptide Y; Rat brain; Hippocampus; Electroacupuncture; Microwave irradiation (Bucinskaite, V. (666) 128)

Neuropeptide-coexistence
Immunocytochemistry; Hypothalamus; Brainstem (Karagogeos, D. (650) 275)

Neuropeptide FF
Cholecystoskinin; Dynorphin; μ Opioid receptor; δ Opioid receptor; Spinal cord; Pain facilitation; Conditioned analgesia; Conditioned anti-analgesia (Wiertelak, E.P. (634) 214)

Neuropeptide FLFQPQRFamide
Spinal cord; Receptor; Autoradiography; Antiopiate; Human; Nociception (Allard, M. (633) 127)

Neuropeptide K
Hypothalamo-pituitary-adrenal axis; Steroidogenesis; Adrenal cortex; Adrenal medulla; Rat (Mazzocchi, G. (661) 91)

Neuropeptide receptor
Brain; Melanocortin; α-Melanocyte-stimulating hormone; Adrenocorticotropic hormone; Lacrimal gland; Melanoma; Rat (Tatro, J.B. (635) 148)

Neuropeptide release
Preganglionic neuron; Sympathetic ganglion; Tonic activity; Neuropeptide turnover (Maher, E. (640) 131)

Neuropeptide turnover
Neuropeptide; Sympathetic preganglionic neuron; Stellate ganglion; Neurotensin synthesis; Neuron activity (Maher, E. (640) 126)

Preganglionic neuron; Sympathetic ganglion; Tonic activity; Neuropeptide release (Maher, E. (640) 131)

Neuropeptide Y
Vagal afferent ganglion; Nodose; Cholecystokinin; Receptor; Analgesia; Satiety (Ghilardi, J.R. (633) 33)

Climbing fiber; Inferior olive; Flocculus; Rat; Immunohistochemistry; In situ hybridization (Ueyama, T. (634) 353)

Intracerebroventricular; Gastric acid; Noradrenaline (Geoghegan, J.G. (635) 118)

Pretectal area; Torus semicircularis; Tectum; Lesion; Frog (Kozicz, T. (635) 345)

Lateral ventricular; Feeding; Drinking; Carbohydrate; Pattern of ingestion; Satiety; Sweet taste (Lynch, W.C. (636) 28)

Selective vulnerability; Excitatory amino acid; Excitotoxicity; Neuroprotection; Somatostatin; Brain injury; Epilepsy (Penix, L.R.P. (644) 19)

Sympathectomy; Substance P; Calcitonin gene-related peptide; Prevertebral; Ganglion (Benarroch, E.E. (644) 322)

Naloxone; Conditional discrimination; Memory (Cleary, J. (653) 210)

Tachykinin; Hypothalamus; Testosterone; Neurokinin A; Median eminence; Arcuate nucleus (Kalra, P.S. (653) 285)

Nerve growth factor; Neurotrophin; Vasoactive intestinal polypeptide; Hippocampal formation; Cerebral cortex (Lapchak, P.A. (654) 1)

Nerve growth factor; Hippocampus; Hypophagia; Neurotrophin; Hypothalamus; Bombesin; Cholecystokinin; Brain-derived neurotrophic factor (Lapchak, P.A. (655) 12)

Neonatal lesion; Dopaminergic transplant; Dopaminergic meso-telencephalic pathway; Immunohistochemistry (Abrous, D.N. (656) 169)

Acetylcholine; Vasoactive intestinal polypeptide; Immunohistochemistry (Ceccatelli, S. (656) 381)

Paraventricular nucleus; Autonomic outflow; Food intake; Cardiovascular regulation; Insulin; Norepinephrine; Nutrient storage (Van Dijk, G. (660) 96)

Hippocampus; In vitro release; Rat; Seizure; Sprouting; Temporal lobe epilepsy (Vezzani, A. (660) 138)

Feeding behavior; Obesity; Meal size; Genetic model; Overeating; Satiety (Stricker-Krongrad, A. (660) 162)

Benzodiazepine; Lateral geniculate nucleus; Locomotor activity; Suprachiasmatic nucleus (Wickland, C. (660) 293)

Galanin; cAMP; Paraventricular nucleus; Arcuate nucleus; Third ventricle (Akabayashi, A. (660) 323)

Adrenaline; Dopamine; Estradiol; Hypothalamus; Luteinizing hormone; Luteinizing hormone-releasing hormone; Noradrenaline; Progesterone; Prolactin; Sexual differentiation (Crowley, W.R. (663) 257)

Axotomy; Inferior alveolar nerve; Trigeminal ganglion; Trigeminal sensory nuclear complex; Rat (Sasaki, Y. (664) 108)

Corticosterone; Paraventricular nucleus; Arcuate nucleus; Hypothalamus; Neuropeptide Y receptor (Akabayashi, A. (665) 201)

c-*fos*; Feeding; Hypothalamus; Paraventricular nucleus (Li, B.-H. (665) 277)

Arcuate nucleus; c-Fos; Immunocytochemistry; Food deprivation; Northern blot; *ob/ob* mouse; Paraventricular nucleus (Mistry, A.M. (666) 53)

Neuropeptide; Rat brain; Hippocampus; Electroacupuncture; Microwave irradiation (Bucinskaite, V. (666) 128)

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Neuropeptide Y_2 receptor agonist
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(−)-Nicotine
(+)-Nicotine; Nicotinic acetylcholine receptor; NMDA; Brain; Rat (Zhang, X. (644) 32)

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Rat; Aprikalim; Levcromakalim; Endothelium-derived hyperpolarizing factor (Mayhan, W.G. (636) 35)

Cerebral arteriole; CGRP(8–37); Atropine; Nitric oxide; NMDA (Faraci, F.M. (640) 93)

Nitro-L-arginine
Cerebral ischemia; L-Arginine; Cerebral blood flow; Systemic blood pressure; Dopamine metabolism (Strasser, A. (664) 197)

N^G-Nitro-L-arginine
Cerebral blood flow; Extracellular pH; Hypercapnia; Indomethacin (Wang, Q. (641) 257)

N^G-Nitro-L-arginine methyl ester
Local cerebral blood flow; Local cerebral glucose utilization; Hypertension; Autoregulation; Sympathectomy (Kelly, P.A.T. (639) 309)

Extracellular cGMP; Guanylyl cyclase; Nitric oxide; Nitric oxide synthase; Phosphodiesterase (Laitinen, J.T. (668) 117)

3-Nitropropionic acid
Systemic administration; Dopamine D_1 receptor binding; Locomotor behavior; Striatum; Mitochondrial impairment (Koutouzis, T.K. (646) 242)

Malonate; Excitotoxicity; Magnetic resonance imaging; Huntington's disease; Parkinson's disease (Henshaw, R. (647) 161)

NK-1 agonist
Scratching; Grooming; NK-2 agonist; Intracerebroventricular; Mouse; NK-1 receptor; Substance P; Septide (Ravard, S. (651) 199)

NK-2 agonist
Scratching; Grooming; NK-1 agonist; Intracerebroventricular; Mouse; NK-1 receptor; Substance P; Septide (Ravard, S. (651) 199)

NK_1 receptor
Autoradiography; Binding study; Brain; Guinea pig; Rat; Selective agonist; ^{3}H-[Pro^9]SP (Saffroy, M. (633) 317)

NK-1 receptor
Scratching; Grooming; NK-1 agonist; NK-2 agonist; Intracerebroventricular; Mouse; Substance P; Septide (Ravard, S. (651) 199)

Substance P; CP96,345; CP96,344; Spinal cord; Nociception; Joint pain; Antibody microprobe (Neugebauer, V. (666) 207)

N_1 latency-intensity function
Chronic cocaine; N_1 amplitude-intensity function; Tyrosine hydroxylase (Shivapuja, B.G. (668) 230)

NMB cell line
Human neuroblastoma; Opioid; Opioid receptor; cAMP; Receptor downregulation; Receptor upregulation (Baumhaker, Y. (665) 94)

NMDA
Glycine; Kynurenic; Neurotransmitter; Hair cell; Afferent synapse; Semicircular canal; Inner ear (Soto, E. (633) 289)

Kainate; Excitatory amino acid; Stress; Glucose production; Glucose utilization; Catecholamine; Epinephrine; Glucagon; Insulin; Corticosterone; Rat (Molina, P.E. (634) 41)

Taurine; Luteinizing hormone; Pituitary cell culture; Luteinizing hormone-releasing hormone; Mediobasal hypothalamus; Superfusion (Arias, P. (634) 325)

Dendritic release; Dopamine; Substantia nigra; Pars compacta; Pars reticulata; Nomifensine; Tetrodotoxin (Gauchy, C. (635) 249)

Dopamine; DOPAC; Homovanillic acid; Intracerebral dialysis (Whitton, P.S. (635) 312)

Bioassay; Citrulline; Excitatory amino acid; Nitric oxide synthase; Spinal cord (Li, P. (637) 287)

Bicuculline methiodide; Kainate; Epileptogenesis; Oocyte; *Xenopus laevis* (Mußhoff, U. (639) 135)

Glutamate; AMPA; Micturition reflex; Urinary bladder (Sugaya, K. (640) 1)

Cerebral arteriole; Nitroglycerin; CGRP(8–37); Atropine; Nitric oxide (Faraci, F.M. (640) 93)

Suprachiasmatic nucleus; MK-801; Circadian rhythmicity; Glutamate; Excitatory amino acid; Enucleation; Rat; Hamster (Hartgraves, M.D. (640) 113)

Visual cortex; Patch-clamp; Voltage-clamp; Single neuron; GABA; Glycine (Takahashi, Y. (640) 229)

Amphetamine; Sensitization; Locomotion; Nitric oxide synthase (Stewart, J. (641) 141)

Ethanol; Acute tolerance; Extracellular; Hippocampus; Excitatory postsynaptic potential (Grover, C.A. (642) 70)

Non-NMDA; Formalin; Pain; PCP; DNQX; CPP; MK-801 (Goettl, V.M. (642) 334)

Ischemia; Excitotoxin; Nerve growth factor; Basic fibroblast growth factor (Yamada, M. (643) 173)

(+)-Nicotine; (−)-Nicotine; Nicotinic acetylcholine receptor; Brain; Rat (Zhang, X. (644) 32)

Acetylcholine; Cerebral cortex; Glutamate; Neuroprotection; Nicotine; Primary culture (Akaike, A. (644) 181)

Adrenergic receptor; GnRH gene expression; Hypothalamus (Suh, J. (645) 36)

Circadian rhythm; Suprachiasmatic nucleus; Retinohypothalamic tract; Nitric oxide (Watanabe, A. (646) 161)

Opioid; Dependence; Kainate; AMPA; Spinal cord; Excitatory amino acid (Yukhananov, R.Yu. (646) 194)

σ Opioid site; 1,3-Di-(2-tolyl)guanidine (DTG); Carbon monoxide; Hypoxia; Amnesia model (Maurice, T. (647) 57)

AMPA; Kainate; Metabotropic; Decortication; Neostriatum (Wüllner, U. (647) 209)

CA1; Hippocampus; Polyamine; Spermine (DiScenna, P.G. (647) 353)

Acetylcholine; Microdialysis; Hippocampus; Basal forebrain; Dual probe; Glutamate; Receptor; Kainate; Medial septum; Diagonal band; Septal stimulation (Moor, E. (648) 32)

Neurotoxicity; Calcium; Chronic depolarization; Kainate; Electrophysiology (Tymianski, M. (648) 291)

Hyperalgesia; Subcutaneous formalin; Tail-flick test; Spinal transection; Dorsolateral funiculus; Nitric oxide; L-NAME; APV; Rat (Wiertelak, E.P. (649) 19)

Excitatory amino acid; AMPA; AP5; CPPene; 7-Chlorokynurenate; D-Serine; NBQX; CNQX; Neurotransmission (Qume, J.D.M. (649) 43)

Glycine; Kynurenic acid; Strychnine; Norepinephrine; Hypothalamus; Superfusion (Johnson, D. (650) 70)

Quinolinic acid; Excitotoxicity; Basal ganglia; Astrocyte (Roberts, R.C. (650) 229)

Quisqualic acid; Colorectal distention; Hyperalgesia; Rat (Kolhekar, R. (651) 215)

Median raphe nucleus; Hippocampus; Theta rhythm; Excitatory amino acid (Kinney, G.G. (654) 96)

Cerebral microcirculation; Sodium nitroprusside; Aprikalim; Excitatory amino acid; Glutamate (Faraci, F.M. (654) 349)

Excitatory amino acid neurotransmitter; Neocortex; Thyrotropin-releasing hormone; Intracellular recording; In vitro (Kasparov, S. (656) 229)

Glutamate; Serotonin; Raphe; (+)-MK 801 (Lejeune, F. (656) 427)

Limbic seizure; Status epilepticus; Heat shock protein; Cell death; Epileptic cell death; Substantia nigra; Epilepsy (Tanaka, K. (660) 192)

Adenosine; Hypoxia; Glutamate; Hippocampus; 1,3-Dipropyl-8-cyclopentylxanthine; Excitatory postsynaptic potential (Canhão, P. (661) 265)

Cerebral cortex; Rat; Connection; Synapse; Cortical slice; Visual system (Currie, S.N. (662) 103)

Morphine; MK-801; Dependence; Withdrawal (Kreeger, J.S. (663) 101)

Spinal cord; Nitric oxide; Hyperalgesia; Prostaglandin; MK-801; D,L-2-Amino-5-phosphonovaleric acid; L-NAME; Ibuprofen; Acetyl salicylic acid (Wiertelak, E.P. (664) 9)

Receptor; D-AP5; Development; Microiontophoresis in vitro hippocampus; Rat (Gorter, J.A. (665) 63)

Globus pallidus; Subthalamic nucleus; Extracellular recording; NBQX; MK-801; AMPA; Kainate (Soltis, R.P. (666) 21)

Excitatory amino acid; Phencyclidine; Microdialysis; Electrophysiology (Wang, T. (666) 255)

NMDA acid
Nucleus accumbens; Ventral pallidum; Intracranial self-stimulation; Reward; Self-stimulation (Johnson, P.I. (646) 73)

NMDA antagonist
MK-801; NPC 12626; Opiate analgesia; κ Opioid receptor; μ Opioid receptor; Naloxone; U69,593; Norbinaltorphimine (Saucier, D.M. (637) 292)

Excitatory amino acid; Stroke; Focal cerebral ischemia; Photothrombosis; Glutamate (Yao, H. (642) 117)

Cerebral blood flow; Cortical spreading depression (Willette, R.N. (648) 347)

Kynurenate; Head injury/pathology; Excitotoxicity; Neuroprotection; Hippocampus (Hicks, R.R. (655) 91)

CPP; Commissural CA3; Long-term potentiation; In vivo; Rat (Hernandez, R.V. (656) 215)

NMDA component
Ischemic damage; CA1 pyramidal neuron; Hippocampal slice; Stroke-prone spontaneously hypertensive rat; L-type Ca^{2+} channel blocker (Yasui, M. (642) 146)

NMDA lesion
Stress; Blood pressure; Heart rate; Motivation (Frysztak, R.J. (643) 181)

NMDA receptor
Morphine; Analgesia; Opiate tolerance; MK-801; Dizocilpine; Phencyclidine; Dextrorphan; Ketamine; Neuroplasticity (Trujillo, K.A. (633) 178)

D-Serine; Distribution; Vertebrate; Brain; Cerebrum; Cerebellum; D-Amino-acid oxidase (Nagata, Y. (634) 291)

MK-801 binding; Proton; Multiplicity; Kainate binding; Spermidine binding (Yoneda, Y. (636) 298)

MK-801; Motor neuron disease; Spinal cord; Motor cortex (Shaw, P.J. (637) 297)

Kainic neurotoxicity; Goldfish optic tectum; Torus longitudinalis; Excitatory input (Migani, P. (637) 313)

Catalepsy; Haloperidol; Dopamine; Glutamate; Caudate-putamen; Rat (Yoshida, Y. (639) 139)

Morphine tolerance; Morphine abstinence; MK-801; Brain region; Spinal cord; Down-regulation; Rat (Gudehithlu, K.P. (639) 269)

Dopamine synthesis; Dopamine release; Synaptosome; Striatum (Desce, J.-M. (640) 205)

Dopamine; MK-801; Dizocilpine; Striatum; Microdialysis (Kiss, J.P. (641) 145)

Morphine; Abstinence syndrome; Mouse; Nitric oxide; Naltrexone; MK-801; L-NMMA (Thorat, S.N. (642) 153)

Serotonin; Long-term potentiation; Theta burst stimulation; GABA receptor; CA1; Hippocampal slice (Staubli, U. (643) 10)

NMR spectroscopy; MK-801; Lactate; Brain metabolism; Glycolysis; Amino acid (Loubinoux, I. (643) 115)

Magnesium; Hypoxia; Brain; Piglet; MK-801; Na^+,K^+-ATPase (Hoffman, D.J. (644) 144)

Nitric oxide; Cyanide; Hypoxia; Excitotoxicity; Transmitter release (Akira, T. (645) 285)

Supraoptic nucleus; Nitric oxide; cGMP; Heart rate; Rat (Amir, S. (645) 330)

Brain microdialysis; Dopamine; Dopamine release; Glutamate; Glutamate receptor; Substantia nigra; Subthalamic nucleus (Rosales, M.G. (645) 335)

σ Opioid site; 1,3-Di-(2-tolyl)guanidine (DTG); Dizocilpine; (MK-801); Amnesia model (Maurice, T. (647) 44)

Nucleus tractus solitarii; Mg^{2+} block; Protein kinase C; Glycine; Development (Nabekura, J. (648) 152)

Striatal compartment; Striosome; Matrix; GABA release; AMPA receptor; Cholinergic receptor; Striatal slice (Galli, T. (649) 243)

Cerebral blood flow; Cerebral glucose utilisation; MK801; CGS19755 (Sharkey, J. (651) 27)

Nitric oxide; Excitotoxicity; Transmitter release; Hippocampal slice (Akira, T. (652) 190)

Brain injury; Lactation; Progesterone; Piriform cortex; Fos immunohistochemistry; Rat (Amir, S. (652) 341)

Excitotoxicity; Kainate receptor (Resink, A. (655) 222)

Adrenocorticotropin hormone; Corticotropin-releasing factor; Interleukin-1β; Dopamine; Behavioral sensitization (Torres, G. (656) 33)

Focal ischemia; Corticotropin-releasing factor; Glucocorticoid; Neurotoxicity (Strijbos, P.J.L.M. (656) 405)

Autoradiography; $GABA_A$ receptor; Opiate receptor; Cerebral ischemia; Gerbil; Pentobarbital (Kanai, Y. (657) 51)

Pattern formation; Retinogeniculate pathway; Activity; Ferret (Smetters, D.K. (658) 168)

Bicuculline; Cerebral blood flow; Nitric oxide; Seizure (Wang, Q. (658) 192)

Human midbrain; Basal ganglia; Non-NMDA receptor; Autoradiography; MK-801 binding; Glycine binding; CNQX binding; Kainate binding (Ball, E.F. (658) 209)

Glutamate receptor; Whole-cell recording; Voltage clamp; Vestibular nucleus; Medial vestibular nucleus; Rat; Slice (Takahashi, Y. (659) 287)

Traumatic brain injury; Protein kinase C; Phorbol ester; MK-801; Brain (Sun, F.-Y. (661) 63)

Memory; Glutamatergic dysfunction; Temporal region; Glycine; HA-966 (Myhrer, T. (662) 263)

Positron emission tomography; Ketamine; Dopamine D_2 receptor; Anesthesia; Striatum; Monkey (Onoe, H. (663) 191)

[^{14}C]2-Deoxyglucose; Autoradiography; Eliprodil; Polyamine site (Cudennec, A. (664) 41)

Nucleus accumbens core; Nucleus accumbens shell; Dopamine; Locomotor activity (Pulvirenti, L. (664) 231)

Receptor-binding; [^{3}H]MK801; Spinal cord injury; Trauma (Sun, F.-Y. (666) 88)

Hippocampus; Dentate gyrus; Corticosterone; AMPA receptor (Shors, T.J. (666) 232)

Rat basal forebrain; Muscarinic acetylcholine receptor; Glutamate receptor subtype; AMPA receptor; Kainate receptor; Autoradiography; In situ hybridization; GABA receptor; Benzodiazepine receptor (Roßner, S. (668) 85)

MPTP; Parkinsonism; MK-801; Diethyldithiocarbamate; MPP^+; Substantia nigra (Vaglini, F. (668) 194)

NMDA receptor antagonist
Excitatory amino acid; Bicuculline; Presynaptic regulation; Striatal compartment (Krebs, M.-O. (634) 345)

NMDA receptor channel
Glutamate receptor channel; ϵ Subunit; ζ Subunit; In situ hybridization; Mouse; Retina; Development (Watanabe, M. (634) 328)

NMMA
Nitric oxide; Cochlea; NADPH-diaphorase; Outer hair cell (Fessenden, J.D. (668) 9)

L-NMMA
Morphine; Abstinence syndrome; Mouse; Nitric oxide; Naltrexone; MK-801; NMDA receptor (Thorat, S.N. (642) 153)

N^G-monomethyl-L-arginine
Autoregulation of cerebral blood flow; Cerebral blood volume; Cerebral microvessel; Hypotension; Nitric oxide; Photoelectric method; Vascular tone (Kobari, M. (667) 255)

NMR spectroscopy
Ischemia; Brain; Energy metabolism; Acetyl-L-carnitine; Lactate; Rat (Aureli, T. (643) 92)

NMDA receptor; MK-801; Lactate; Brain metabolism; Glycolysis; Amino acid (Loubinoux, I. (643) 115)

NNC-711
Retinal cell; γ-Aminobutyric acid release; Glutamate receptor; MK-801; CNQX (Ferreira, I.L. (664) 252)

Nociception
Spinal cord; Receptor; Autoradiography; Neuropeptide FLFQPQRFamide; Antiopiate; Human (Allard, M. (633) 127)

Rostroventromedial medulla; Tail flick; On-cell; Off-cell; Unanesthetized; Decerebrated (Clarke, R.W. (636) 169)

Pain; Thermoreception; Analgesia; Opiate; Pathway (Craig, A.D. (636) 233)

β-Endorphin; Opioid; DNA synthesis; Spinal cord; Intrathecal injection; Development; Analgesia (Bartolome, J.V. (642) 311)

Progesterone; Allopregnanolone; Steroid mechanism; Non-genomic; Neuroactivesteroid; Membrane; Tail flick latency (Frye, C.A. (643) 194)

Pain; Colorectal distention; Viscera (Follett, K.A. (656) 27)

Pain; Analgesia; Copulation; Female sexual behavior; Pelvic nerve; Pudendal nerve; Hypogastric nerve; Mount; Intromission; Ejaculation (Gómora, P. (656) 52)

Sacral parasympathetic nucleus; Spinal tract neuron; Urinary bladder; c-*fos*; Rat (Ding, Y.-Q. (659) 283)

Serotonin 5-HT_1 receptor; Dorsal horn; Intrathecal (Ali, Z. (661) 83)

μ Receptor; δ Receptor; Analgesia; Synergy; Pain (Rossi, G.C. (665) 85)

Substance P; CP96,345; CP96,344; Spinal cord; Joint pain; NK-1 receptor; Antibody microprobe (Neugebauer, V. (666) 207)

NADPH-diaphorase; Nitric oxide; Nitric oxide synthase; Inflammation; Arthritis; Knee joint; Cat (Bscheidl, C. (668) 266)

Nociceptive reflex
μ Opioid; κ Opioid; Spinal cord; Stimulus intensity (Thorn, S.A. (663) 352)

Nociceptive suppression
Parafascicular neuron; Intrathecal administration; Norepinephrine; Serotonin; Naloxone; Atropine (Li, Y.-J. (666) 113)

Nocturnal feeding
Neuropeptide Y antibody; Osmotic pump; Immunoneutralization; Immunoglobulin G; Hypothalamus (Dube, M.G. (646) 341)

Node of Ranvier
Astrocyte; Chondroitin sulfate; Corpus callosum; Electron microscopy; Immunohistochemistry; Rat; Spinal cord (Bjartmar, C. (667) 111)

Nodose
Vagal afferent ganglion; Cholecystokinin; Neuropeptide Y; Receptor; Analgesia; Satiety (Ghilardi, J.R. (633) 33)

Channel; Calcium; Dissociated; Charybdotoxin (Hay, M. (639) 333)

Nodose ganglion
Serotonin 5-HT_3 receptor; Patch clamp; H-7; H-8; Protein kinase (Fan, P. (649) 310)

5-HT_3 receptor; Patch-clamp; Forskolin; cAMP; Desensitization (Fan, P. (650) 16)

Adenosine; Receptor; Nucleus tractus solitari; Vagal afferent; Autoradiography; Microdialysis; Glutamate (Castillo-Meléndez, M. (652) 137)

Nodulus
Afferent projection; Vestibular nucleus; Cat (Akaogi, K.-i. (638) 12)

Afferent projection; Inferior olive; Cat (Akaogi, K.-i. (638) 133)

Nomifensine
Dendritic release; Dopamine; NMDA; Substantia nigra; Pars compacta; Pars reticulata; Tetrodotoxin (Gauchy, C. (635) 249)

Non-contractile calcium
Nicotinic acetylcholine receptor; Desensitization; Neuromuscular blocker (Tsuneki, H. (650) 299)

Non-erythroid spectrin
Brain spectrin; Cerebellum; Erythroid spectrin; Polarization; Neuronal cytoskeleton; Spectrin isoform (Clark, M.B. (663) 223)

Non-genomic
Progesterone; Allopregnanolone; Steroid mechanism; Neuroactivesteroid; Membrane; Tail flick latency; Nociception (Frye, C.A. (643) 194)

Non-NMDA
NMDA; Formalin; Pain; PCP; DNQX; CPP; MK-801 (Goettl, V.M. (642) 334)

Non-NMDA receptor
Human motor cortex; Brainstem; Spinal cord; Kainate binding; Autoradiography; Excitotoxicity; Motor neuron disease (Shaw, P.J. (641) 39)

Hair cell; Transmitter; Modulator; Vestibular; Invertebrate (Tu, Y. (642) 47)

Motor neuron disease; Spinal cord; Motor cortex; AMPA receptor; Kainate receptor; Excitotoxicity; Autoradiography (Shaw, P.J. (655) 186)

Human midbrain; Basal ganglia; NMDA receptor; Autoradiography; MK-801 binding; Glycine binding; CNQX binding; Kainate binding (Ball, E.F. (658) 209)

Non-opioid
Stress; Analgesia; β-Endorphin; Opioid; Periaqueductal gray; Rat (Hawranko, A.A. (667) 283)

Non-opioid analgesia
Adrenalectomy; Opioid analgesia; Corticosterone; Adrenomedullary catecholamine; Adrenomedullary enkephalin; Permissive effect; Chlorisondamine; Naltrexone (Sutton, L.C. (663) 19)

Non-opioid antinociception
Antinociception; Cholinergic antinociception; Carbachol; Periaqueductal gray (Guimarães, A.P.C. (647) 220)

Nonphotic
Activity; Circadian rhythm; Hamster; Intergeniculate leaflet; Phase shift; Triazolam (Janik, D. (651) 174)

Non-pyramidal neuron
White matter; Sensory; Motor; Association area (Hashikawa, T. (641) 341)

Somatosensory cortex; Calcium binding protein; Basket cell; Thalamocortical afferent (McMullen, N.T. (660) 225)

Non-rapid eye movement sleep
Sleep–wake regulation; Thermoregulation; Slow-wave sleep; Temperature regulation; Sleep cycle (Krilowicz, B.L. (668) 30)

Non-shivering thermogenesis
Prostaglandin E_1; Cerebral cortex; Brown adipose tissue; Sympathetic activity; Oxygen consumption; Body temperature (Monda, M. (651) 148)

Non-specific cationic current
Neuroblastoma-glioma hybrid (NG108-15) cell; Cytoplasmic free Ca^{2+}; Perforated patch clamp technique; Fura-2 fluorometry (Tokutomi, N. (657) 202)

Non-specific current
Antidromic activation; Autoradiography; Biocytin; Brainstem slice; Neuropeptide; Synaptic current; Oxytocin; Voltage clamp (Palouzier-Paulignan, B. (650) 117)

Non-stationary point process
Time dependent scatter diagram; Functional connectivity; Correlation technique (Hamada, Y. (660) 209)

Nonvolatile substance
Turtle olfactory response; Gustatory stimuli; Salt; Acid; Bitter substance (Shoji, T. (666) 68)

Nootropics
Nefiracetam; Aniracetam; Calcium channel; cAMP; G protein; NG108-15 cell (Yoshii, M. (642) 123)

Noradrenaline
Neural transplantation; Dopamine; 6-Hydroxydopamine; Tyrosine hydroxylase; Fiber outgrowth (Nikkhah, G. (633) 133)

Fast cyclic voltammetry; Locus coeruleus; Brain slice; Electrical stimulation (Palij, P. (634) 275)

Neuropeptide Y; Intracerebroventricular; Gastric acid (Geoghegan, J.G. (635) 118)

Morphine; Rat hippocampus; Brain microdialysis (Matsumoto, M. (636) 1)

Brainstem; Microdialysis; Pre-loading; Preoptic area; Rat (Fernández-Galaz, C. (636) 227)

Parkinson's disease; Hypothalamus; Dopamine; Serotonin; Monoamine (Shannak, K. (639) 33)

Adrenaline; Immunohistochemistry; Aging; Tyrosine hydroxylase; Phenylethanolamine-*N*-methyltransferase; Brainstem; Sprague–Dawley rat (Monji, A. (641) 171)

Development; Frontal cortex; Testosterone; Estradiol; Aromatase inhibitor; Dopamine; Perinatal life (Stewart, J. (646) 157)

Human; Brain; Three-dimensional reconstruction; Alcohol (Arango, V. (650) 1)

Synapse; Paraventricular nucleus of the hypothalamus; Supraoptic nucleus; Locus ceruleus; Membrane turnover; Dopamine β-hydroxylase; Volume transmission (Aoki, C. (650) 181)

Epilepsy; Immunocytochemistry; GABA; Glia; Serotonin; Choline acetyltransferase; Cerebral cortex (Araneda, S. (655) 135)

Dystonia; Serotonin; Dopamine; Basal ganglia; Brainstem (Löscher, W. (658) 199)

Adrenaline; Dopamine; Estradiol; Hypothalamus; Luteinizing hormone; Luteinizing hormone-releasing hormone; Neuropeptide Y; Progesterone; Prolactin; Sexual differentiation (Crowley, W.R. (663) 257)

Dihydroxyphenylalanine; Dihydroxyphenylacetic acid; Hemorrhage; 5-Hydroxyindoleacetic acid; Homovanillic acid; Hypothalamic paraventricular nucleus; In vivo microdialysis (Morris, M.J. (665) 5)

Immunotoxin; Sympathectomy; Dopamine β-hydroxylase; Autonomic; Saporin (Picklo, M.J. (666) 195)

Spontaneously hypertensive rat; Aging; Immobilization stress; Hypothalamic paraventricular nucleus; Intracerebral microdialysis (Terrazzino, S. (668) 256)

Noradrenaline metabolite
Microdialysis; Noradrenaline overflow; α_2-Autoreceptor; Medial prefrontal cortex; Frontoparietal cortex; Amygdala; Hippocampus (Van Veldhuizen, M.J.A. (635) 238)

Noradrenaline overflow
Microdialysis; Noradrenaline metabolite; α_2-Autoreceptor; Medial prefrontal cortex; Frontoparietal cortex; Amygdala; Hippocampus (Van Veldhuizen, M.J.A. (635) 238)

Neonatal propranolol; In vivo dialysis; Catecholamine metabolism; α_2-Autoreceptor; Idazoxan (Van Veldhuizen, M.J.A. (646) 19)

Noradrenaline release
In vivo microdialysis; Immobilization stress; Medial prefrontal cortex; Corticotropin-releasing factor (Shimizu, N. (654) 145)

Noradrenergic
Renin; Fenfluramine; 6-Hydroxydopamine; Yohimbine; Lesion (Van de Kar, L.D. (634) 77)

QX-314; Inward rectifier; K^+ channel; Locus ceruleus; Opiate receptor (Alreja, M. (639) 320)

Noradrenergic drug
Cholinergic septo-hippocampal system; High-affinity choline uptake; α-Adrenoceptor; Transsynaptic modulation; Mouse (Marighetto, A. (652) 120)

Nor-binaltorphamine
Macronutrient intake; Opioid; Naltrexone; Beta-funaltrexamine; Naloxonazine; DALCE; Naltrindole; Food deprivation; 2-Deoxy-D-glucose (Koch, J.E. (657) 191)

Norbinaltorphimine
Butorphanol; Opioid; Feeding; Opioid antagonist; μ Opioid receptor; κ Opioid receptor; δ opioid receptor; β-Funaltrexamine; Naltrindole (Levine, A.S. (637) 242)

NMDA antagonist; MK-801; NPC 12626; Opiate analgesia; κ Opioid receptor; μ Opioid receptor; Naloxone; U69,593 (Saucier, D.M. (637) 292)

Spinal cord; Substance P; Cholecystokinin; Serotonin; Opiate; Excitatory amino acid; Hyperalgesia; CP96345; L 365260; Methysergide; Naltrexone (Watkins, L.R. (664) 17)

Norepinephrine
Central amygdaloid nucleus; Bed nucleus of the stria terminalis; Substantia innominata; Tyrosine hydroxylase; Dopamine β-hydroxylase (Freedman, L.J. (633) 243)

Idazoxan; REM sleep; Brainstem; Carbachol (Bier, M.J. (634) 333)

Histamine; MHPG; Hypothalamus; Medial zona incerta (Fleckenstein, A.E. (638) 243)

Luteinizing hormone; κ Opioid receptor; Dopamine; Medial basal hypothalamus; Pregnancy; Push–pull perfusion (Zhen, S. (642) 178)

Ventromedial nucleus of the hypothalamus; Running activity; Blood glucose; Kainate; GABA (Narita, K. (642) 290)

Interleukin-1; Interleukin-2; Interleukin-6; Serotonin; Dopamine; Corticosterone (Zalcman, S. (643) 40)

Locus coeruleus; Olfactory bulb; Dopamine; Serotonin; Associative learning; Memory; Rat pup (Sullivan, R.M. (643) 306)

ACTH; Corticosterone; Tryptophan; Newcastle disease virus; Serotonin (Dunn, A.J. (645) 103)

Microdialysis; Cocaine; Frontal cortex; Hippocampus; Locus coeruleus (Thomas, D.N. (645) 135)

Carbachol; cAMP-dependent protein kinase; Whole cell recording; CA1; Rp-cAMPS (Blitzer, R.D. (646) 312)

SK-N-SH cell; Opioid; Opioid receptor; Neurotransmitter release; Catecholamine (Keren, O. (646) 319)

Mesolimbic; Reinforcement; Drug abuse; Mesencephalon (Van Bockstaele, E.J. (647) 307)

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TIDA; Dopamine; Morphine; Haloperidol; Apomorphine; Luteinizing hormone; Prolactin; Tuberoinfundibular (He, J.-R. (653) 1)

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Northern blotting
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Noxious stimulation
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NPC 12626
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Nucleus accumbens shell; Dopamine; NMDA receptor; Locomotor activity (Pulvirenti, L. (664) 231)

Nucleus accumbens shell
Nucleus accumbens core; Dopamine; NMDA receptor; Locomotor activity (Pulvirenti, L. (664) 231)

Nucleus ambiguus
Sino-atrial node; Bradycardia; Ganglion; Retrograde transport; Substance P; Synapse; Ultrastructure; Vagus nerve (Massari, V.J. (660) 275)

Nucleus basalis
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FG 7142; Double Y-maze; γ-Aminobutyric acid; Memory; Muscimol; Reference memory; Working memory (Smith, C.G. (666) 61)

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Nucleus basalis of Meynert
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Nucleus isthmus
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Nucleus of solitary tract
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Nucleus of the solitary tract
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Nucleus pontis oralis
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Nucleus raphe dorsalis
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Nucleus raphe magnus
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Nucleus raphe obscurus
Periaqueductal grey matter; Cardiovascular defence response; Nucleus raphe magnus; Rat (Schenberg, L.C. (651) 236)

Nucleus reticularis gigantocellularis
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Substance P; Norepinephrine; α_2-Adrenoceptor; Guanabenz; Microdialysis; Rat (Tsou, M.-Y. (653) 183)

Nucleus reticularis paragigantocellularis
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Adrenaline; Substantia innominata; Rostral ventrolateral medulla; Calbindin D-28k (Granata, A.R. (645) 265)

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Arginine-vasopressin; Angiotensin II; Area postrema; Baroreflex; Brain slice (Cai, Y. (647) 242)

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Nω-nitro-L-arginine methyl ester
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Nutrient storage
Neuropeptide Y; Paraventricular nucleus; Autonomic outflow; Food intake; Cardiovascular regulation; Insulin; Norepinephrine (Van Dijk, G. (660) 96)

Nystatin
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Nystatin-perforated patch
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Nystatin perforated patch
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O

O2A progenitor
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Obesity
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Glucose; Norepinephrine; Mazindol; Anorectic receptor (Levin, B.E. (668) 171)

_ob / ob_ mouse
Arcuate nucleus; c-Fos; Immunocytochemistry; Food deprivation; Neuropeptide Y; Northern blot; Paraventricular nucleus (Mistry, A.M. (666) 53)

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Octavolateralis column
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Octopamine
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Insect nervous system; Dorsal unpaired median neurones; FMRFamide; Insect heart (Stevenson, P.A. (638) 117)

Odor coding
Olfaction; Odor recognition; Odor discrimination; Deoxyglucose (Lu, X.-C.M. (639) 26)

Odor discrimination
Olfaction; Odor recognition; Odor coding; Deoxyglucose (Lu, X.-C.M. (639) 26)

Odor mixture
Temporal processing; Human psychophysics; Odor suppression (Laing, D.G. (651) 317)

Odor preference
Anxiety; Anxiolytic; Predator odor; Neurosteroid; 3α-Hydroxy-4-pregnen-20-one; GABA acid; GABA receptor (Kavaliers, M. (645) 325)

Estrous female odor; Neurosteroid; 3α-Hydroxy-4-pregnen-20-one; GABA; GABA receptor; Male sexual interest; Male sexual motivation; Olfactory response (Kavaliers, M. (646) 140)

Odor reception
Olfactory bulbar response; Lipid; Fatty acid; Phosphatidylserine; Turtle (Taniguchi, M. (647) 10)

Odor recognition
Olfaction; Odor discrimination; Odor coding; Deoxyglucose (Lu, X.-C.M. (639) 26)

Odor suppression
Odor mixture; Temporal processing; Human psychophysics (Laing, D.G. (651) 317)

Off-cell
Rostroventromedial medulla; Nociception; Tail flick; On-cell; Unanesthetized; Decerebrated (Clarke, R.W. (636) 169)

7-OH-DPAT
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8-OH-DPAT
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Olfaction
Odor recognition; Odor discrimination; Odor coding; Deoxyglucose (Lu, X.-C.M. (639) 26)

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Sensory; Olfactory marker protein; Regeneration; Reinnervation; Cerebral cortex; Olfactory nerve; Transplantation (Hendricks, K.R. (648) 135)

NADPH-diaphorase histochemistry; HPLC; Nitric oxide synthase; Nitric oxide; Crayfish (Johansson, K.U.I. (649) 36)

Dentate gyrus; Fast wave; Slow wave; Toluene; Noxious stimulation; Rat; Scopolamine (Heale, V.R. (652) 235)

Spontaneous activity; Receptor cell; Mitral cell; Single neuron modeling; Stochastic process (Rospars, J.-P. (662) 31)

Olfactory bulb
Locus coeruleus; Norepinephrine; Dopamine; Serotonin; Associative learning; Memory; Rat pup (Sullivan, R.M. (643) 306)

Preoptic nucleus; Periventricular nucleus; Supraoptic nucleus; Paraventricular nucleus; Arcuate nucleus; Median eminence; Sympathetic activity (Vatta, M. (646) 324)

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Olfactory bulbar response
Lipid; Fatty acid; Phosphatidylserine; Turtle; Odor reception (Taniguchi, M. (647) 10)

Olfactory bulbectomy
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Olfactory marker protein
Olfaction; Sensory; Bulbectomy; Regeneration; Reinnervation; Cerebral cortex (Hendricks, K.R. (648) 121)

Olfaction; Sensory; Regeneration; Reinnervation; Cerebral cortex; Olfactory nerve; Transplantation (Hendricks, K.R. (648) 135)

Olfactory nerve
Olfaction; Sensory; Olfactory marker protein; Regeneration; Reinnervation; Cerebral cortex; Transplantation (Hendricks, K.R. (648) 135)

Olfactory piriform cortex
Gonadotropin releasing hormone mRNA; Extrahypothalmus (Choi, W.S. (648) 148)

Olfactory response
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Oligodendrocyte
Astrocyte; Catalase; Cytotoxicity; Free radical; Multiple sclerosis (Noble, P.G. (633) 83)

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Astrocyte; Fetal human brain culture; Heat shock protein 72; Heat stress; Microglia; Neuron (Satoh, J.-i. (653) 243)

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Oligodeoxynucleotide
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Olivocochlear efferent
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Aminoglycoside antibiotic; Gentamicin; Contralateral efferent suppression; Compound action potential (Smith, D.W. (652) 243)

Omeprazole
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Omocestus viridulus
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On-cell
Rostroventromedial medulla; Nociception; Tail flick; Off-cell; Unanesthetized; Decerebrated (Clarke, R.W. (636) 169)

ON channel
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Ontogenesis
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Oocyte
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Cerebral ischemia; Gerbil; Post-ischemic hypothermia; Delayed neuronal death (Colbourne, F. (654) 265)

Open-field
Sensory neglect; Spontaneous behavior; Turning; Thigmotactic scanning; Parkinsonism; 6-Hydroxydopamine; Neostriatum; Substantia nigra; Dopamine metabolism (Fornaguera, J. (664) 178)

Operant behavior
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Opiate
Pain; Nociception; Thermoreception; Analgesia; Pathway (Craig, A.D. (636) 233)

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Sickness behavior; Lipopolysaccharide; Interleukin-1; Infection; Open field; Analgesia; Naltrexone; Fever; Rat (Yirmiya, R. (648) 80)

Morphine; Ingestive behavior; Bulimia; Striatum; Nucleus accumbens; Rat (Bakshi, V.P. (648) 342)

Autoradiography; Cerebellum; Octavolateralis column; GABA; Cholinergic; Excitatory amino acid; Neurotensin (Nicholson, L.F.B. (652) 40)

Catalepsy; Locomotion; PPTg; Brainstem (Olmstead, M.C. (662) 134)

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Opiate agonist
Intrathecal; Aging; Tail flick test; Antinociception; Opioid receptor (Crisp, T. (643) 282)

Opiate alkaloid binding
μ_3 Opiate receptor; N18TG2 neuroblastoma cell; F-11 neurohybrid cell (Cruciani, R.A. (667) 229)

Opiate analgesia
NMDA antagonist; MK-801; NPC 12626; κ Opioid receptor; μ Opioid receptor; Naloxone; U69,593; Norbinaltorphimine (Saucier, D.M. (637) 292)

Opiate dependence
Morphine; Abstinence syndrome; Adenosine receptor; Receptor binding; Adenylate cyclase; Mouse brain (Kaplan, G.B. (657) 347)

Opiate receptor
QX-314; Inward rectifier; K^+ channel; Locus ceruleus; Noradrenergic (Alreja, M. (639) 320)

Autoradiography; NMDA receptor; $GABA_A$ receptor; Cerebral ischemia; Gerbil; Pentobarbital (Kanai, Y. (657) 51)

μ_3 Opiate receptor
Opiate alkaloid binding; N18TG2 neuroblastoma cell; F-11 neurohybrid cell (Cruciani, R.A. (667) 229)

Opiate tolerance
Morphine; Analgesia; NMDA receptor; MK-801; Dizocilpine; Phencyclidine; Dextrorphan; Ketamine; Neuroplasticity (Trujillo, K.A. (633) 178)

Opiate withdrawal
Aspartate; Excitatory amino acid; Glutamate; Locus coeruleus; Microdialysis; Naltrexone (Aghajanian, G.K. (636) 126)

Opioid
Butorphanol; Feeding; Opioid antagonist; μ Opioid receptor; κ Opioid receptor; δ opioid receptor; Norbinaltorphimine; β-Funaltrexamine; Naltrindole (Levine, A.S. (637) 242)

Feeding; Lateral hypothalamus (Papadouka, V. (639) 42)

Reward; Food restriction; Weight loss; Self-stimulation (Carr, K.D. (639) 253)

Cholecystokinin; Heroin self-administration; Morphine drug discrimination; Devazepide; L365-260; Dopamine; Haloperidol (Higgins, G.A. (640) 246)

β-Endorphin; DNA synthesis; Spinal cord; Intrathecal injection; Development; Analgesia; Nociception (Bartolome, J.V. (642) 311)

Dependence; NMDA; Kainate; AMPA; Spinal cord; Excitatory amino acid (Yukhananov, R.Yu. (646) 194)

SK-N-SH cell; Norepinephrine; Opioid receptor; Neurotransmitter release; Catecholamine (Keren, O. (646) 319)

Morphine; DPDPE; U50488H; Dopamine D_2 receptor; Striatum; Nucleus accumbens; Guinea pig (Brent, P.J. (654) 191)

Macronutrient intake; Naltrexone; Beta-funaltrexamine; Naloxonazine; Nor-binaltorphamine; DALCE; Naltrindole; Food deprivation; 2-Deoxy-D-glucose (Koch, J.E. (657) 191)

Cerebral circulation; Fluid percussion brain injury (Armstead, W.M. (660) 19)

Reward; Streptozotocin; Diabetes (Carr, K.D. (664) 211)

Human neuroblastoma; NMB cell line; Opioid receptor; cAMP; Receptor downregulation; Receptor upregulation (Baumhaker, Y. (665) 94)

Antisense; Oligodeoxynucleotide; Analgesia; κ Opioid receptor; Spiradoline (Adams, J.U. (667) 129)

Stress; Analgesia; β-Endorphin; Non-opioid; Periaqueductal gray; Rat (Hawranko, A.A. (667) 283)

κ Opioid
μ Opioid; Spinal cord; Nociceptive reflex; Stimulus intensity (Thorn, S.A. (663) 352)

μ Opioid
Cholecystokinin; α_2-Adrenergic; Dexmedetomidine; Cholecystokinin-B antagonist; L365,260; PD135158; Spinal; Antinociception (Sullivan, A.F. (662) 141)

κ Opioid; Spinal cord; Nociceptive reflex; Stimulus intensity (Thorn, S.A. (663) 352)

Opioid analgesia
Adrenalectomy; Non-opioid analgesia; Corticosterone; Adrenomedullary catecholamine; Adrenomedullary enkephalin; Permissive effect; Chlorisondamine; Naltrexone (Sutton, L.C. (663) 19)

Opioid antagonism
Proopiomelanocortin; β-Endorphin; γ_3-Melanocyte-stimulating hormone; Naltrexone; Hypothalamus (Jaffe, S.B. (648) 24)

Opioid antagonist
μ Opioid receptor; κ Opioid receptor; δ Opioid receptor; Angiotensin II; Hypertonic saline; Drinking; Water intake (Ruegg, H. (635) 203)

Butorphanol; Opioid; Feeding; μ Opioid receptor; κ Opioid receptor; δ opioid receptor; Norbinaltorphimine; β-Funaltrexamine; Naltrindole (Levine, A.S. (637) 242)

μ Opioid receptor; κ Opioid receptor; δ Opioid receptor; Isoproterenol; Drinking; Water intake (Glass, M.J. (657) 310)

Opioid peptide
High-voltage activated current; Basal ganglia; Whole-cell patch clamp (Stefani, A. (642) 339)

Grand mal seizure; Mossy fiber; Human; Axonal plasticity (Rees, H. (652) 113)

Shell; Core; Choline acetyltransferase; Leucine^5-enkephalin; Silver-enhanced gold; Silver-intensified gold; Ventral striatum (Meredith, G.E. (667) 67)

Helix; Homosynaptic depression; Identified synapse; GABA; Naloxone; Synaptic transmission (Gutiérrez, R. (667) 243)

Opioid receptor
Intrathecal; Aging; Tail flick test; Antinociception; Opiate agonist (Crisp, T. (643) 282)

Laudanosine; Analgesia (Katz, Y. (646) 235)

SK-N-SH cell; Norepinephrine; Opioid; Neurotransmitter release; Catecholamine (Keren, O. (646) 319)

K^+ channel; Glibenclamide; Tetraethylammonium bromide (Raffa, R.B. (650) 146)

Food restriction; Reward (Wolinsky, T.D. (656) 274)

Human neuroblastoma; NMB cell line; Opioid; cAMP; Receptor downregulation; Receptor upregulation (Baumhaker, Y. (665) 94)

δ Opioid receptor
Cholecystoskinin; Neuropeptide FF; Dynorphin; μ Opioid receptor; Spinal cord; Pain facilitation; Conditioned analgesia; Conditioned anti-analgesia (Wiertelak, E.P. (634) 214)

Opioid antagonist; μ Opioid receptor; κ Opioid receptor; Angiotensin II; Hypertonic saline; Drinking; Water intake (Ruegg, H. (635) 203)

Cholecystokinin; In vitro release; Spinal cord; Morphine; μ Opioid receptor; κ Opioid receptor (Benoliel, J.J. (653) 81)

Opioid antagonist; μ Opioid receptor; κ Opioid receptor; Isoproterenol; Drinking; Water intake (Glass, M.J. (657) 310)

δ-Opioid receptor
Brain; κ-Opioid receptor; Immunity (Radulović, J. (661) 189)

κ Opioid receptor
Opioid antagonist; μ Opioid receptor; δ Opioid receptor; Angiotensin II; Hypertonic saline; Drinking; Water intake (Ruegg, H. (635) 203)

Butorphanol; Opioid; Feeding; Opioid antagonist; μ Opioid receptor; δ opioid receptor; Norbinaltorphimine; β-Funaltrexamine; Naltrindole (Levine, A.S. (637) 242)

NMDA antagonist; MK-801; NPC 12626; Opiate analgesia; μ Opioid receptor; Naloxone; U69,593; Norbinaltorphimine (Saucier, D.M. (637) 292)

CI-977; Autoradiography; CNS depression; 2-Deoxyglucose (Mackay, K.B. (642) 160)

Luteinizing hormone; Norepinephrine; Dopamine; Medial basal hypothalamus; Pregnancy; Push–pull perfusion (Zhen, S. (642) 178)

Cholecystokinin; In vitro release; Spinal cord; Morphine; μ Opioid receptor; δ Opioid receptor (Benoliel, J.J. (653) 81)

Human cerebral cortex; Immunohistochemistry; Monoclonal antibody KA8; Electron microscopy (Schmidt, P. (654) 223)

Opioid antagonist; μ Opioid receptor; δ Opioid receptor; Isoproterenol; Drinking; Water intake (Glass, M.J. (657) 310)

Dopaminergic neuron; Excitatory amino acid; AMPA receptor; GABA; $GABA_A$ receptor (Wagner, E.J. (660) 319)

Antisense; Oligodeoxynucleotide; Opioid; Analgesia; Spiradoline (Adams, J.U. (667) 129)

κ-Opioid receptor
Brain; δ-Opioid receptor; Immunity (Radulović, J. (661) 189)

μ Opioid receptor
Cholecystoskinin; Neuropeptide FF; Dynorphin; δ Opioid receptor; Spinal cord; Pain facilitation; Conditioned analgesia; Conditioned anti-analgesia (Wiertelak, E.P. (634) 214)

Opioid antagonist; κ Opioid receptor; δ Opioid receptor; Angiotensin II; Hypertonic saline; Drinking; Water intake (Ruegg, H. (635) 203)

Butorphanol; Opioid; Feeding; Opioid antagonist; κ Opioid receptor; δ opioid receptor; Norbinaltorphimine; β-Funaltrexamine; Naltrindole (Levine, A.S. (637) 242)

NMDA antagonist; MK-801; NPC 12626; Opiate analgesia; κ Opioid receptor; Naloxone; U69,593; Norbinaltorphimine (Saucier, D.M. (637) 292)

DAMGO; Endorphin receptor; Endorphin; In situ hybridization; Receptor autoradiography (Mansour, A. (643) 245)

Morphine; Genetics; Selective breeding; Autoradiography (Mogil, J.S. (653) 16)

Cholecystokinin; In vitro release; Spinal cord; Morphine; δ Opioid receptor; κ Opioid receptor (Benoliel, J.J. (653) 81)

Opioid antagonist; κ Opioid receptor; δ Opioid receptor; Isoproterenol; Drinking; Water intake (Glass, M.J. (657) 310)

σ Opioid receptor
NCB20 cell; Haloperidol; Naloxone; Remoxipride; Antipsychotic; K channel (Morio, Y. (637) 190)

κ Opioid receptor agonist
Dizocilpine; MK-801; U-50,488H; Analgesia; Tolerance (Bhargava, H.N. (649) 111)

σ Opioid site
NMDA receptor; 1,3-Di-(2-tolyl)guanidine (DTG); Dizocilpine; (MK-801); Amnesia model (Maurice, T. (647) 44)

1,3-Di-(2-tolyl)guanidine (DTG); Carbon monoxide; Hypoxia; NMDA; Amnesia model (Maurice, T. (647) 57)

Opioid tolerance
Protein kinase C; Morphine; Butorphanol (Narita, M. (650) 175)

Opisthobranch mollusk
Circadian pacemaker; Calcium; Fura-2; Oscillator; Cell culture; Manganese (Geusz, M.E. (638) 109)

Optical imaging
Calcium channel; Calcium Green-dextran; Fluorescence; Lamprey (McClellan, A.D. (663) 61)

Optic nerve injury
Deafferentation; Immunocytochemistry; Primate (Gutierrez, C. (651) 300)

Optic nerve transection
Melatonin receptor; 2-Iodomelatonin binding; Chick; Visual system; Autoradiography (Krause, D.N. (654) 63)

Optic tectum
Zebra finch; Visually evoked potential; Visual wulst; Ectostriatum; Ipsi- and contralateral stimulus responses; Cooling; Spreading depression (Engelage, J. (652) 17)

Calbindin; Parvalbumin; Retinotectal system; Subcortical visual pathways; Visual system (Britto, L.R.G. (661) 289)

Optic tract
Neurofilament; Immunohistochemistry; Wallerian degeneration; Retinal fiber (Meller, D. (648) 162)

Opto-oculomotor system
GABA transmission; Baclofen; CGP 35348; Vestibulo-oculomotor system; Saccade; Pigmented rat (Niklasson, M. (649) 151)

Orbicularis oculi muscle
Myotoxin; Neurotoxin; Facial nerve; Retrograde tracing; DiI (McLoon, L.K. (641) 105)

Orbicularis oris
Sensorimotor reaction; Active force dynamics; Mechanical stimulation; Skin contactor; Electromyography; Adult (Andreatta, R.D. (646) 175)

Organelle motion
Axoplasmic transport; Adrenaline; Neurotransmitter; Superior cervical ganglion cell; Axonal transport regulation; Potentiation (Takenaka, T. (643) 81)

Organelle transport
Nerve; Protein transport; Transport reversal; Reversal time (Snyder, R.E. (635) 49)

Organotypic culture
Cerebellar development; Granule cell migration; Parallel fiber; Purkinje cell; Synapse formation; Spatiotemporal pattern (Tanaka, M. (641) 319)

Auditory receptor; Development; Fetus; Overproduction (Abdouh, A. (660) 181)

Vomeronasal axon; Fasciculation; Lectin; Glycoconjugate; Development (Ichikawa, M. (668) 252)

Organum vasculosum of the lamina terminalis
Subfornical organ; Cell culture; Immunocytochemistry; NADPH-diaphorase; Angiotensin II; Calcium (Jurzak, M. (662) 198)

Orientation selectivity
Norepinephrine; Visual cortex; Velocity selectivity; Cat; Iontophoresis (McLean, J. (667) 83)

Orienting behavior
Superior colliculus; Subthalamic nucleus; Basal ganglia; *Phaseolus vulgaris*-leucoagglutinin; Fluoro–Gold (Tokuno, H. (639) 156)

Orienting response
Anxiety; Analgesia; Proglumide; CR1409; Cholecystokinin; Pain; Alerting; Hyperalgesia; Columnar organization (Liu, H. (642) 83)

Ornithine decarboxylase
Polyamine; Lithium; Putrescine; Spermidine; Spermine; Dexamethasone; Brain; Rat (Gilad, G.M. (636) 187)

Oro-facial reflex
Exteroceptive suppression; Peripheral modulation; Naloxone; Temporalis (Schoenen, J. (657) 214)

Oscillator
Glutamate; GABA; Hippocampal slice; Neural network; Seizure; Field potential; EEG; Model (Schneiderman, J.H. (633) 105)

Circadian pacemaker; Calcium; Fura-2; Opisthobranch mollusk; Cell culture; Manganese (Geusz, M.E. (638) 109)

Osmolality
Angiotensin AT_1 receptor; Angiotensin AT_2 receptor; Vasopressin (Hogarty, D.C. (637) 126)

Osmotic minipump
Quinolinic acid; Picolinic acid; NADPH-diaphorase; Striatum (Kalisch, B.E. (668) 1)

Osmotic pump
Neuropeptide Y antibody; Immunoneutralization; Immunoglobulin G; Hypothalamus; Nocturnal feeding (Dube, M.G. (646) 341)

Osmotic regulation
Sodium pump; Synaptosome (Aksentsev, S.L. (644) 1)

Otoacoustic emission
Auditory selective attention; Cochlea; Efferent (Giard, M.-H. (633) 353)

Otolith
Fos; Zif/268; Vestibular; Semicircular canal; Inferior olive; Anesthetic effect (Kaufman, G.D. (646) 345)

Ototoxicity
Outer hair cell; Guinea pig; Cisplatin; Calcium current; Whole-cell voltage clamp (Yamamoto, T. (648) 296)

Ouabain
Na^+,K^+-ATPase inhibitor; Melittin; Erythrosin B; Zinc; Neuronal cytotoxicity; Acetylcholinesterase (Lees, G.J. (649) 225)

Outer hair cell
Gentamicin; Cochlea; Patch-clamp; PBFI; Guinea pig (Ernst, A. (636) 153)

Guinea pig; Cisplatin; Ototoxicity; Calcium current; Whole-cell voltage clamp (Yamamoto, T. (648) 296)

Guinea pig; Cochlea; Patch-clamp; Potassium channel; Resting potential (Nakagawa, T. (661) 293)

Nitric oxide; Cochlea; NADPH-diaphorase; NMMA (Fessenden, J.D. (668) 9)

Outer segment
Vertebrate rod photoreceptor; Transduction; cGMP renewal; Slowing of kinetics; Aging (Leibovic, K.N. (653) 325)

Oval nucleus
Oxytocin; Amygdala; Parabrachial nucleus; Oxytocin binding site; Microiontophoresis; Histoautoradiography (Condés-Lara, M. (637) 277)

Ovariectomized
Pituitary adenylate cyclase activating polypeptide; Tyrosine hydroxylase; Prolactin; Median eminence; Striatum; Lactation; Dopamine (Arbogast, L.A. (655) 17)

Ovariectomized rat
Serotonin 5-HT_{1A} receptor; Intact rat; Desensitization; Female sexual behavior (Uphouse, L. (637) 173)

$GABA_A$ receptor; Bicuculline; Muscimol; Luteinizing hormone releasing hormone pulse generator; Pulsatile luteinizing hormone release (Hiruma, H. (641) 191)

Ovariectomy
Sensitization; Cocaine; Genetic difference; Sex difference; Castration; Female; Rat (Haney, M. (645) 179)

Female rat; Pyramidal cell; Parietal cortex; Dendritic branching; Neonatal exposure to testosterone (Stewart, J. (654) 149)

Overeating
Neuropeptide Y; Feeding behavior; Obesity; Meal size; Genetic model; Satiety (Stricker-Krongrad, A. (660) 162)

Overproduction
Auditory receptor; Development; Fetus; Organotypic culture (Abdouh, A. (660) 181)

Ovine prolactin
Prolactin; Receptor; Rat hypothalamus; Domperidone; Bromocriptine; Pituitary implantation (Muccioli, G. (663) 244)

OVLT
Dehydration; Fos; Lamina terminalis; Median preoptic area; Supraoptic (McKinley, M.J. (653) 305)

OVTA
Subiculum; In vitro autoradiography; Adrenalectomy (Liberzon, I. (650) 317)

Ovulation
Estrogen receptor; Hypothalamus; Luteinizing hormone; Electron microscopy (Langub Jr., M.C. (641) 303)

Oxidant resistance
NGF; Hydrogen peroxide; Catalase; Glutathione peroxidase; PC12; Cell death (Jackson, G.R. (634) 69)

***β*-Oxidation**
Palmitic acid; Arachidonic acid; Brain; Fatty acid; Phospholipid; Methyl palmoxirate (Freed, L.M. (645) 41)

Oxidative metabolism
Brain neuron; 2′,7′-Dichlorofluorescin diacetate; *Ginkgo biloba*; Flavonoid; Reactive oxygen species (Oyama, Y. (635) 125)

Ca^{2+}; Cerebellar neuron; Methylmercury; Reactive oxygen species (Oyama, Y. (660) 154)

Cerebellar neuron; *N,N*-Diethyldithiocarbamate; 2′,7′-Dichlorofluorescin diacetate; Ionomycin (Oyama, Y. (660) 158)

Calmodulin; Central nervous system neuron; Flow cytometer; Reactive oxygen species; W-7 (Oyama, Y. (664) 220)

Oxidative phosphorylation
Respiratory complex; Mitochondrion; Brain; Aging (Ferrándiz, M.L. (644) 335)

Oxidative stress
Aging; Dementia; Free radical; Human brain; Lipid peroxidation (Palmer, A.M. (645) 338)

12-*O*-Tetradecanoylphorbol-13-acetate; Neurotoxicity; Glutathione; Anti-oxidant (Davis, J.B. (652) 169)

Retina cell; GABA release; Potassium depolarization; Excitatory amino acid; Glutamate antagonist (Agostinho, P. (655) 213)

2-Mercaptoethanol; Human serum; Cell survival; Neurofilament 210 kDa; Fetal mouse brain (Katayama, M. (656) 409)

Gene expression; Motoneuron; Amyotrophic lateral sclerosis; Superoxide dismutase (Bergeron, C. (659) 272)

Oxidized glutathione
Brain temperature; Circadian rhythm; Glutamate; Intracerebroventricular infusion; Paradoxical sleep; Sleep-promoting substance; Slow-wave sleep (Honda, K. (636) 253)

Oxotremorine
Hemorrhagic shock; Muscarinic; Atropine; Nicotinic; Mecamylamine; AV3V lesion (Onat, F. (660) 261)

Oxygen consumption
Non-shivering thermogenesis; Prostaglandin E_1; Cerebral cortex; Brown adipose tissue; Sympathetic activity; Body temperature (Monda, M. (651) 148)

Oxygen free radical
Hypothermia; Focal cerebral ischemia; Ascorbate; Glutathione; Postischemic hyperperfusion; Delayed postischemic hypoperfusion (Karibe, H. (649) 12)

Oxygen-free radicals
Focal brain ischemia; Immediate early gene; c-fos mRNA; Superoxide dismutase; Transgenic mouse (Kamii, H. (662) 240)

Oxygen–glucose deprivation
Mechanical brain injury; Anti-ischemic activity; Hippocampal slice; Intracellular free calcium; Fura-2 (Honda, T. (666) 263)

Oxytocin
Amygdala; Parabrachial nucleus; Oval nucleus; Oxytocin binding site; Microiontophoresis; Histoautoradiography (Condés-Lara, M. (637) 277)

Autoradiography; Castration; Hamster; Hypothalamus; Sex difference; Vasopressin (Dubois-Dauphin, M. (638) 267)

Vasopressin; Sympathetic preganglionic neuron (Sermasi, E. (647) 323)

Endothelin; Gestation; Hypothalamus; Neurohypophysis; Pregnancy (Horwitz, M.J. (648) 59)

Antidromic activation; Autoradiography; Biocytin; Brainstem slice; Non-specific current; Neuropeptide; Synaptic current; Voltage clamp (Palouzier-Paulignan, B. (650) 117)

Angiotensin II; c-*fos*; Vasopressin; Immediate early gene; Drinking behavior; Water ingestion; Gene suppression; Paraventricular nucleus; Supraoptic nucleus (Xu, Z. (659) 157)

Supraoptic nucleus; Paraventricular nucleus; c-*fos*; Hemorrhage; Water deprivation; Vasopressin; Lactation (Fénelon, V.S. (662) 165)

Nausea; Hypothalamic paraventricular nucleus (Curtis, K.S. (663) 30)

Oxytocin binding site
Oxytocin; Amygdala; Parabrachial nucleus; Oval nucleus; Microiontophoresis; Histoautoradiography (Condés-Lara, M. (637) 277)

P

^{31}P
Nuclear magnetic resonance spectroscopy; ^{1}H; Epilepsy; Rat; Cerebral metabolism (Meric, Ph. (638) 53)

p19
Gene expression; Growth-associated gene; GAP-43; Stathmin; MAP2; α1-Tubulin; Plasticity; Brain; Neuron; In situ hybridization (Himi, T. (655) 177)

P450
Choroid plexus; Endothelium; Food mutagen; β-Naphthoflavone; Ellipticine (Brittebo, E.B. (659) 91)

PA and spatial navigation
Medial septum; Serotonin; Nicotine; THA (Riekkinen Jr., P. (662) 95)

PACAP
Cerebral microvessel; cAMP; Peptide (Kobayashi, H. (647) 145)

Pacemaker neuron
Ionic current; Conotoxin (Lev-Ram, V. (640) 48)

2D-PAGE
Excitotoxicity; Granule cell culture; Protein synthesis; GRP 78 (Dessi, F. (654) 27)

Pain
Neuropathic pain; Autotomy; MK-801; Dizocilpine; Nerve injury (Baños, J.E. (636) 107)

Nociception; Thermoreception; Analgesia; Opiate; Pathway (Craig, A.D. (636) 233)

Anxiety; Analgesia; Proglumide; CR1409; Cholecystokinin; Orienting response; Alerting; Hyperalgesia; Columnar organization (Liu, H. (642) 83)

NMDA; Non-NMDA; Formalin; PCP; DNQX; CPP; MK-801 (Goettl, V.M. (642) 334)

Cocaine; Dorsal horn neuron; Tail flick test; Spinal transection; Dopamine (Kiritsy-Roy, J.A. (644) 109)

Brainstem; Antinociception; Rostral ventrolateral medulla; Dorsal horn; Catecholamine (Siddall, P.J. (645) 61)

Carrageenan; Dorsal horn; Hyperalgesia; Nitric oxide; Nitric oxide synthase (Traub, R.J. (647) 113)

Substance P; Spinal cord; Analgesia; Vagina; Cervix (Steinman, J.L. (647) 204)

Colorectal distention; Nociception; Viscera (Follett, K.A. (656) 27)

Nociception; Analgesia; Copulation; Female sexual behavior; Pelvic nerve; Pudendal nerve; Hypogastric nerve; Mount; Intromission; Ejaculation (Gómora, P. (656) 52)

Interleukin-1β; Hyperalgesia; Wide dynamic range neuron; Interleukin-1 receptor antagonist; α-Melanocyte stimulating hormone; Prostaglandin E_2; Central nervous system (Oka, T. (656) 236)

Adrenal; Catecholamine; c-*fos*; Cornea; Somatosympathetic reflex (Bereiter, D.A. (657) 73)

Ventromedial medulla; Single-unit activity; Freely moving rat; Polyarthritic rat (Montagne-Clavel, J. (657) 92)

Afferent fiber; Hindpaw; Plantar injection; Mechanical stimulation; Thermal stimulation (Fukuoka, H. (657) 133)

Prostaglandin E_2; Thermal hyperalgesia; Analgesia; M&B28767; 17-Phenyl-ω-trinor PGE_2; Central nervous system (Oka, T. (663) 287)

Glucose utilization; 2-Deoxyglucose; Morphine; Limbic system; Footshock; Analgesia (Gescuk, B. (663) 303)

μ Receptor; δ Receptor; Analgesia; Synergy; Nociception (Rossi, G.C. (665) 85)

Central canal; Dorsal horn; Hyperalgesia; Lamina X (Traub, R.J. (668) 204)

Pain facilitation
Cholecystoskinin; Neuropeptide FF; Dynorphin; μ Opioid receptor; δ Opioid receptor; Spinal cord; Conditioned analgesia; Conditioned anti-analgesia (Wiertelak, E.P. (634) 214)

Pain pathway
Cell adhesion; Immunoglobulin superfamily; Basal ganglia; Limbic system; Circumventricular organ; Cerebral cortex; Development; Monoclonal antibody (Peduzzi, J.D. (640) 296)

Paired helical filament
Dystrophic neurite; Tau; Argentophilia; Immunocytochemistry; Neuropathology; Alzheimer's disease (Su, J.H. (637) 37)

Butyrylcholinesterase; Neurofibrillary tangle; Neuropil thread (Gómez-Ramos, P. (640) 17)

Proteolysis; Tau protein; Aggregation; SDS solubility; Immunogold electron microscopy (Ksiezak-Reding, H. (649) 185)

Paired-pulse
Anticonvulsant; GABA; γ-vinyl-GABA; Hippocampus; Inhibition (Jackson, M.F. (651) 85)

Paired-pulse inhibition
Short-term potentiation; Long-term potentiation; Neocortex; Memory (Racine, R.J. (637) 73)

Long-term potentiation; Long-term depression; Neocortex; Chronic preparation; Memory; Cholinergic; Enriched environment (Racine, R.J. (637) 83)

Palaeostriatum augmentatum
Nitric oxide; Domestic chick; Learning; Memory; IMHV (Ambalavanar, R. (644) 160)

Pallidotomy
Dyskinesia; Globus pallidus; Parkinsonism; MPTP (Blanchet, P.J. (650) 32)

Palmitic acid
Arachidonic acid; Brain; Fatty acid; β-Oxidation; Phospholipid; Methyl palmoxirate (Freed, L.M. (645) 41)

Pancreas
Adrenergic fiber; Autonomic nervous system; Catecholamine; Histamine; Medulla oblongata; Parasympathetic nervous system; Pseudorabies virus; Raphe nucleus; Serotonin; Vagus nerve; Viral transneuronal labeling (Loewy, A.D. (638) 248)

Panulirus
Olfaction; Adaptation; Chemoreception; Lobster; Transduction (Daniel, P.C. (643) 136)

Parabrachial complex
Phrenic nerve; Respiratory timing; Decerebration; Inspiratory duration; Pons (Morrison, S.F. (652) 83)

Parabrachial nucleus
Oxytocin; Amygdala; Oval nucleus; Oxytocin binding site; Microiontophoresis; Histoautoradiography (Condés-Lara, M. (637) 277)

Fos; Trigeminal spinal caudal subnucleus; Fluoro-Gold; Immunocytochemistry; Double labeling; Formalin; Rat (Wang, L.G. (649) 62)

Nucleus of solitary tract; Central nucleus of the amygdala; *Phaseolus vulgaris* leucoagglutinin; Degeneration; Electron microscope; Rat (Jia, H.-G. (663) 181)

Central nucleus of the amygdala; Substantia innominata; Bed nucleus of stria terminalis; Vagal nucleus; Diagonal ventral forebrain continuum (Schmued, L.C. (667) 175)

Parachlorophenylalanine
Serotonin 5-HT_{1B} receptor; 5,7-Dihydroxytryptamine; L-5-Hydroxytryptophan; Upregulation; Time course; Quantitative autoradiography; Suprachiasmatic nucleus; Rat (Manrique, C. (663) 93)

Paradoxical sleep
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Paradoxical sleep deprivation
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Parafascicular neuron
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Paraflocculus
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Parahippocampal gyrus
Human brain (Kinomura, S. (659) 263)

Parallel fiber
Cerebellar development; Organotypic culture; Granule cell migration; Purkinje cell; Synapse formation; Spatiotemporal pattern (Tanaka, M. (641) 319)

Parallelism
Choline acetyltransferase; Choline acetyltransferase mRNA; Muscarinic M_1 receptor; Muscarinic M_1-R mRNA; Aged rat brain; Bifemelane hydrochloride (Ogawa, N. (658) 87)

Paraplegia
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Parasympathetic
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Parasympathetic nervous system
Adrenergic fiber; Autonomic nervous system; Catecholamine; Histamine; Medulla oblongata; Pancreas; Pseudorabies virus; Raphe nucleus; Serotonin; Vagus nerve; Viral transneuronal labeling (Loewy, A.D. (638) 248)

Angiotensin binding; Spinal cord; Intermediolateral nucleus; Sympathetic nervous system; Dorsal root ganglion; Dorsal horn (Oldfield, B.J. (650) 40)

Parathyroid hormone
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Paraventricular
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Paraventricular hypothalamus
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Paraventricular nucleus
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Polyclonal antibody; Recovery, in vitro; Insulin; Rat (Lambert, P.D. (656) 135)

Corticosterone; Corticotropin-releasing hormone; Bed nucleus of the stria terminalis; mRNA; Amygdala (Makino, S. (657) 141)

Brain microdialysis; Vasopressin; Hemorrhage; Sexual dimorphism; Blood pressure (Ota, M. (658) 49)

Angiotensin II; c-*fos*; Vasopressin; Oxytocin; Immediate early gene; Drinking behavior; Water ingestion; Gene suppression; Supraoptic nucleus (Xu, Z. (659) 157)

Neuropeptide Y; Autonomic outflow; Food intake; Cardiovascular regulation; Insulin; Norepinephrine; Nutrient storage (Van Dijk, G. (660) 96)

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Supraoptic nucleus; c-*fos*; Hemorrhage; Water deprivation; Oxytocin; Vasopressin; Lactation (Fénelon, V.S. (662) 165)

Food deprivation; Water deprivation; Hypothalamic–pituitary–adrenal axis; Corticotropin-releasing hormone; Vasopressin; Receptor (Kiss, A. (663) 84)

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c-*fos*; Neuropeptide Y; Feeding; Hypothalamus (Li, B.-H. (665) 277)

Arcuate nucleus; c-Fos; Immunocytochemistry; Food deprivation; Neuropeptide Y; Northern blot; *ob/ob* mouse (Mistry, A.M. (666) 53)

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p-Chloroamphetamine; Neurotoxicity; Serotonin uptake site; Monoamine oxidase; Deprenyl; Clorgyline (Benmansour, S. (650) 305)

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Lewy body; Synaptophysin; Chromogranin A; Immunohistochemistry; Immuno-electron microscopy (Nishimura, M. (634) 339)

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Dopamine uptake site; GBR-12935; Extrapyramidal symptom; Dementia of the Alzheimer type (Allard, P.O. (637) 262)

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Microdialysis; Intracerebral transplantation; Ventral tegmental area; Substantia nigra; Prefrontal cortex; Ventral striatum; Paw-reaching; Staircase test (Cenci, M.A. (641) 225)

Sulfonylurea; ATP-sensitive K^+ channel; Glibenclamide; Human brain; Progressive supranuclear palsy; Huntington's disease (Holemans, S. (642) 327)

Glutamate receptor; Autoradiography; 6-Hydroxydopamine; Substantia nigra; Striatum (Wüllner, U. (645) 98)

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Milnacipran; Antidepressant-binding sites; Serotonin transporter; Autoradiography; Lesion; 5,7-Dihydroxytryptamine (Barone, P. (668) 129)

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Dendritic release; Dopamine; NMDA; Substantia nigra; Pars compacta; Nomifensine; Tetrodotoxin (Gauchy, C. (635) 249)

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Rat globus pallidus; Glutamate decarboxylase; Immunohistochemistry; Light microscopy; Electron microscopy; Morphological analysis (Kita, H. (657) 31)

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GABA; Calcium-binding protein; Calbindin; Hippocampus; Aging (Potier, B. (661) 181)

Calbindin; Optic tectum; Retinotectal system; Subcortical visual pathways; Visual system (Britto, L.R.G. (661) 289)

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Memory and learning; Somatostatin; Cholinergic; Nucleus basalis magnocellularis; Cysteamine; FR121196; Physostigmine (Matsuoka, N. (642) 11)

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Visual cortex; Voltage-clamp; Single neuron; GABA; Glycine; NMDA (Takahashi, Y. (640) 229)

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Guinea pig; Cochlea; Outer hair cell; Potassium channel; Resting potential (Nakagawa, T. (661) 293)

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Neuroblastoma cell; Ca^{2+}-channel; Nimodipine; Amyloid β-peptide; Alzheimer's disease (Davidson, R.M. (643) 324)

Nodose ganglion; Serotonin 5-HT_3 receptor; H-7; H-8; Protein kinase (Fan, P. (649) 310)

Capsaicin; Proton; Irritant; Chemosensitivity; Sensitization; Somatosensory; Neuron (Martenson, M.E. (651) 143)

Brain slice; Quantal analysis; Basal ganglia (Mori, A. (654) 177)

Patch clamp electrophysiology
Ethanol; Allosteric modulator; $GABA_A$ receptor; Dissociated neuron (Frye, G.D. (635) 283)

Paternal behavior
Maternal behavior; Microtus, Amygdala; Fos (Kirkpatrick, B. (658) 112)

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Pain; Nociception; Thermoreception; Analgesia; Opiate (Craig, A.D. (636) 233)

Pattern formation
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Pattern of ingestion
Neuropeptide Y; Lateral ventricular; Feeding; Drinking; Carbohydrate; Satiety; Sweet taste (Lynch, W.C. (636) 28)

Pavlovian fear conditioning
Long-term potentiation; Hippocampus; Sex difference; Contextual learning; (Rat) (Maren, S. (661) 25)

Paw-reaching
Microdialysis; Intracerebral transplantation; Parkinson's disease; Ventral tegmental area; Substantia nigra; Prefrontal cortex; Ventral striatum; Staircase test (Cenci, M.A. (641) 225)

PBFI
Gentamicin; Outer hair cell; Cochlea; Patch-clamp; Guinea pig (Ernst, A. (636) 153)

PC12
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Nystatin-perforated patch; Nicotinic acetylcholine response; Muscarinic acetylcholine response (Furukawa, K. (638) 302)

Nerve growth factor; Ruffle; Actin (Sano, M. (639) 115)

Amyloid β peptide; Apoptosis; Necrosis; Nerve growth factor (Behl, C. (645) 253)

Choline; β-Amyloid; Alzheimer's disease; Carrier; Leakage; Acetylcholine; Brain; Neuron (Galdzicki, Z. (646) 332)

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Ciliary neurotrophic factor; Nerve growth factor; Pheochromocytoma (Zhong, W. (661) 56)

Nerve growth factor; Neuronal differentiation; TrkA; Tyrosine phosphorylation (Yamada, M. (661) 137)

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Pedunculopontine tegmental nucleus
Amphetamine; Conditioned place preference; Locomotion; Mesencephalic locomotor region; Morphine; Rat; Reinforcement (Olmstead, M.C. (638) 29)

Basal ganglia; Globus pallidus; Substantia nigra; Dorsal raphe nucleus (Charara, A. (640) 155)

Amino acid transmitter; Acetylcholine; Acoustic startle response; Caudal pontine reticular nucleus; Laterodorsal tegmental nucleus; Microiontophoresis; Auditory stimulation (Kungel, M. (643) 29)

Nicotine; Mesolimbic dopamine; Cholinergic; Reinforcement; Dihydro-β-erythroidine; Cocaine (Corrigall, W.A. (653) 278)

Pelvic nerve
Nociception; Pain; Analgesia; Copulation; Female sexual behavior; Pudendal nerve; Hypogastric nerve; Mount; Intromission; Ejaculation (Gómora, P. (656) 52)

Penile erection
Fenfluramine; Cholinergic; Serotonergic; Dopaminergic; Hippocampus; Medial septum; Fimbria-fornix; Raphe nucleus (Maeda, N. (652) 181)

Penis
NADPH-diaphorase; Dorsal root ganglia; Major pelvic ganglia; Nitric oxide synthase; Urinary bladder; Urethra; Lumbosacral spinal cord (Vizzard, M.A. (646) 279)

Pentobarbital
$GABA_A$ receptor; Benzodiazepine; Cl^- current; Hippocampal neuron; Ethanol; Cl-218,872 (Aguayo, L.G. (647) 97)

Autoradiography; NMDA receptor; $GABA_A$ receptor; Opiate receptor; Cerebral ischemia; Gerbil (Kanai, Y. (657) 51)

Ethanol; γ-Aminobutyric acid; Inhibitory postsynaptic current; Hippocampus; Patch-clamp (Weiner, J.L. (665) 307)

Pentylenetetrazol
Entorhinal cortex; Dentate gyrus; Hippocampus; Tetrodotoxin; Epileptiform activity (Stringer, J.L. (636) 221)

Epilepsy; Oocyte; Potassium channel; Epileptogenic agent (Madeja, M. (656) 287)

Nitric oxide; N^G-Methyl-arginine; N^ω-Intro-L-arginine; Epilepsy; Rat (Osonoe, K. (663) 338)

Penumbra
Focal cerebral infarction; Neurologic deficit; Lipid peroxidation; Tirilazad mesylate; Neuroprotection (Park, C.K. (645) 157)

Peptide
Glycine; Co-localization; Immunohistochemistry (Fleming, A.A. (638) 347)

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Corticotropin-releasing factor; Sympathetic nervous system; Sympathetic ganglion; Sweating; Neurotransmitter; Chemical coding (Shafton, A.D. (652) 129)

Neuromodulation; Second messenger; Invertebrate; cAMP; Feeding; Buccal; cAMP-dependent protein kinase; Cotransmitter (Hooper, S.L. (657) 337)

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Peptide histidine isoleucine
Gastrin releasing peptide; Light; Phase–response curve; Circadian pacemaker; Entrainment (Peters, R.V. (639) 217)

Vasoactive intestinal polypeptide; Peptide histidine valine; Suprachiasmatic nucleus; Cerebral cortex; Peptide processing; Vasoactive intestinal polypeptide precursor; Circadian; Mouse (Mikkelsen, J.D. (656) 95)

Peptide histidine valine
Vasoactive intestinal polypeptide; Peptide histidine isoleucine; Suprachiasmatic nucleus; Cerebral cortex; Peptide processing; Vasoactive intestinal polypeptide precursor; Circadian; Mouse (Mikkelsen, J.D. (656) 95)

Peptide processing
Vasoactive intestinal polypeptide; Peptide histidine isoleucine; Peptide histidine valine; Suprachiasmatic nucleus; Cerebral cortex; Vasoactive intestinal polypeptide precursor; Circadian; Mouse (Mikkelsen, J.D. (656) 95)

Peptide processing and electrical activity
Peptide release by exocytosis; Caudodorsal cell; Quantitative immunoelectron microscopy; *Lymnaea stagnalis* (Roubos, E.W. (644) 83)

Peptide release by exocytosis
Peptide processing and electrical activity; Caudodorsal cell; Quantitative immunoelectron microscopy; *Lymnaea stagnalis* (Roubos, E.W. (644) 83)

Perforant fiber
Synapse; P-type calcium channel; Transmitter release; Agatoxin; Mossy fiber; Hippocampus (Yamamoto, C. (634) 349)

Perforant path
Kindling; Transfer kindling; Epilepsy; Entorhinal cortex; Dentate gyrus; Neural plasticity (Spiller, A.E. (635) 130)

Kindling; Transfer kindling; Epilepsy; Entorhinal cortex; Dentate gyrus; Neural plasticity (Spiller, A.E. (635) 139)

Status epilepticus; Kindling; Neurophysiology; Chronic epileptogenicity; Dentate gyrus; Spontaneous generalized convulsion (Shirasaka, Y. (655) 33)

Norepinephrine; β-Receptor; cAMP; Long-term potentiation; Neural plasticity; Hippocampus (Frizzell, L.M. (663) 173)

Perforated patch clamp technique
Neuroblastoma-glioma hybrid (NG108-15) cell; Non-specific cationic current; Cytoplasmic free Ca^{2+}; Fura-2 fluorometry (Tokutomi, N. (657) 202)

Perforated synapse
Electron microscopy; Extrapyramidal side effect; Glutamate immunocytochemistry; Glutamate antagonist (Meshul, C.K. (648) 181)

Perfusion in situ
Brain; Blood–brain barrier; Transport; Permeability; Amino acid; α-Aminoisobutyric acid (Ennis, S.R. (643) 100)

Periaqueductal gray
Brain-derived neurotrophic factor; Neurotrophin-3; Nerve growth factor; Analgesia; Spinal cord; Serotonin; Naloxone (Siuciak, J.A. (633) 326)

Retina; Dorsal raphe nucleus; Serotonin; Sleep; Wakefulness; Circadian rhythm; Tract tracing (Shen, H. (635) 159)

Antinociception; Cholinergic antinociception; Carbachol; Non-opioid antinociception (Guimarães, A.P.C. (647) 220)

Antinociception; Rostral ventromedial medulla; Morphine; Lidocaine; Descending inhibitory pathway (Urban, M.O. (652) 9)

Acoustic startle response; Amygdala; Anxiety; Caudal pontine reticular nucleus; Central gray; Fear; Footshock; Rat; Sensitization (Fendt, M. (661) 163)

Enkephalin; GABA; Immunocytochemistry; Ultrastructure; Synapse (Wang, Q.-P. (665) 39)

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Periaqueductal grey matter
Cardiovascular defence response; Nucleus raphe obscurus; Nucleus raphe magnus; Rat (Schenberg, L.C. (651) 236)

Perifusion
Ca^{2+}-activated K^+ channel; Prolactin secretion; Pituitary cell; Dopamine; Nifedipine; Charybdotoxin; Apamin (Wang, X. (662) 83)

Perinatal brain injury
Hypoxic/ischemic injury; Neonatal; Developmental (Grafe, M.R. (653) 161)

Perinatal exposure
Septo-hippocampal system; Development; Muscarinic cholinergic receptor; Cholineacetyltransferase; Lead; Rat (Bielarczyk, H. (643) 211)

Perinatal life
Development; Frontal cortex; Testosterone; Estradiol; Aromatase inhibitor; Dopamine; Noradrenaline (Stewart, J. (646) 157)

Perinatology
Hypoxia-ischemia; Rat; Cerebral cortex; Glutamic acid decarboxylase; GABA; Epilepsy; Confocal laser scanning microscopy; Immunofluorescence (Romijn, H.J. (657) 245)

Peripheral benzodiazepine receptor
Primary culture; Astrocyte; Dopamine; Serotonin; Norepinephrine; GABA; Glutamate (Itzhak, Y. (660) 346)

Peripheral degeneration
Aging; Retina; Fischer 344 rat; Neural degeneration; Photoreceptor (DiLoreto Jr., D. (647) 181)

Peripheral modulation
Oro-facial reflex; Exteroceptive suppression; Naloxone; Temporalis (Schoenen, J. (657) 214)

Peripheral nerve
Nerve regeneration; Degeneration; Silicone; Implant; Matrix; Schwann cell (Zhao, Q. (633) 97)

Neural transplantation; MPTP; Adrenal medulla; Cograft; Nerve growth factor (NGF); Parkinson's disease (Date, I. (637) 50)

Globoid cell leukodystrophy; Krabbe disease; Autoradiography; Demyelination (Komiyama, A. (637) 106)

Peripheral nerve injury
c-*fos*; Dorsal horn; Somatotopy; Tibial nerve; Peroneal nerve (Sugimoto, T. (642) 348)

Peripheral nerve regeneration
Sensory neuron; Mouse genetics (Lu, X. (652) 174)

Biodegradable graft; Collagen; Laminin; Fibronectin (Tong, X.-j. (663) 155)

Peripheral nervous system
Calcium/calmodulin-dependent protein kinase type IV; Immunohistochemistry; Rat (Sakagami, H. (666) 173)

Peripheral neuropathy
Chromaffin cell; Hyperalgesia; Naloxone; Neural transplantation; Phentolamine (Hama, A.T. (651) 183)

Allodynia; Hyperalgesia; Magnesium therapy; Neuropathic pain (Xiao, W.-H. (666) 168)

Peripheral-type benzodiazepine receptor
Primary culture; Astrocyte; Cell volume; Hypoosmolarity (Itzhak, Y. (644) 221)

Perirhinal cortex
Kindling; Thyrotropin-releasing hormone; Carbamazepine; Tolerance; Hippocampus; Entorhinal cortex; Pyriform cortex; mRNA; In situ hybridization (Rosen, J.B. (651) 252)

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Intracellular recording, in vitro; Intrinsic property (Beggs, J.M. (665) 18)

Periventricular
Bombesin; Gastrin-releasing peptide; Neuromedin B; Dorsal raphe; Suprachiasmatic nucleus; Single cell; Action potential (Pinnock, R.D. (653) 119)

Periventricular-hypophysial
Dopamine; Mesolimbic; Stress; α-Melanocyte-stimulating hormone; α-Fluoromethylhistidine (Fleckenstein, A.E. (653) 267)

Periventricular nucleus
Olfactory bulb; Preoptic nucleus; Supraoptic nucleus; Paraventricular nucleus; Arcuate nucleus; Median eminence; Sympathetic activity (Vatta, M. (646) 324)

Androgen receptor; Somatostatin; Immunoreactivity; Bed nucleus of the stria terminalis; Rat (Huang, X. (652) 291)

Permanent occlusion of bilateral common carotid arteries
Learning; Memory; Radial maze; Rat (Ni, J.-w. (653) 231)

Permeability
Brain; Blood–brain barrier; Transport; Amino acid; α-Aminoisobutyric acid; Perfusion in situ (Ennis, S.R. (643) 100)

Permeability-surface area product
Blood–brain barrier glucose transporter; Kinetic constant; GLUT1 isoform; Quantitative immunogold electron microscopy; Luminal and abluminal membrane; Neonate; Suckling; Weanling and adult; Developmental upregulation; Cerebral blood flow (Cornford, E.M. (663) 7)

Permeabilized cell
Ischemia; Adrenal chromaffin cell; Catecholamine release; Intracellular free Ca^{2+} concentration; $^{45}Ca^{2+}$ uptake; ATP (Itoh, A. (643) 266)

Permissive effect
Adrenalectomy; Opioid analgesia; Nonopioid analgesia; Corticosterone; Adrenomedullary catecholamine; Adrenomedullary enkephalin; Chlorisondamine; Naltrexone (Sutton, L.C. (663) 19)

Peroneal nerve
c-*fos*; Dorsal horn; Somatotopy; Peripheral nerve injury; Tibial nerve (Sugimoto, T. (642) 348)

Peroxidase
Gomori glia; Residual body; Autophagosome; Iron; Transformed mitochondrion (Brawer, J.R. (633) 9)

Peroxidase–antiperoxidase
Insulin-like substance; Insulin receptor; Fetal neuron cell culture; In situ hybridization; Northern blot; High performance liquid chromatography; Radioimmunoassay; Western blot (Schechter, R. (636) 9)

Peroxisome
Immunohistochemistry; Bifunctional protein; Brain development (Imamura, A. (640) 236)

Peroxynitrite
Nitric oxide; Lipid peroxidation; Trolox; Mitochondrion (Heales, S.J.R. (668) 243)

PER protein
Rhythm; Suprachiasmatic nucleus; Rat (Rosewell, K.L. (659) 231)

Perseveration
Operant behavior; Neocortex; Nucleus accumbens; Neostriatum; Stereotyped behavior; Hyperactivity; Schizophrenia (Sokolowski, J.D. (642) 20)

Stress; Neocortex; Aversive motivation; Emotion (Sokolowski, J.D. (651) 293)

PET
Fenfluramine; Serotonin; Modulation; Human; Frontal cortex (Kapur, S. (646) 292)

PGD_2
Brain LH/hCG receptor; Sleep–wake phase; Behavior; PGE_2; Medial preoptic area; Hippocampus; Cerebral cortex (Toth, P. (654) 181)

PGE_1 fever
Thermoregulation; CCK8 and ceruletide; Central vs. peripheral effect; L364,718; L365,260 (Szelényi, Z. (638) 69)

PGE_2
Brain LH/hCG receptor; Sleep–wake phase; Behavior; PGD_2; Medial preoptic area; Hippocampus; Cerebral cortex (Toth, P. (654) 181)

PGO spike
Serotonin; Cholinergic; Synapse; Tegmentum; REM sleep; Immunohistochemistry; Electron microscopy (Honda, T. (647) 299)

pH
Astrocyte; Cerebral ischemia; Compartmentation; Glia; Neuron; ^{31}P NMR spectroscopy (Sunagawa, S. (641) 328)

Glutamate; Intracellular calcium concentration; Fura-2; Cortical neuron (Ou-Yang, Y.B. (646) 65)

Neuromuscular junction; Miniature endplate current; Synaptic vesicle; Acetylcholine; Ammonium ion (Prior, C. (664) 61)

pH regulation
Brain; Extracellular pH; Intracellular pH; Hypercapnia; Extracellular electrolyte; Total tissue electrolyte (Katsura, K.-i. (651) 47)

pH_i regulation
Hydrogen ion; Alkalosis; Glial cell; Leech (Szatkowski, M.S. (665) 1)

Phaclofen
Baclofen; Double Y-maze; GABA; Memory; Muscimol; Nucleus basalis magnocellularis; Reference memory; Working memory (DeSousa, N.J. (641) 29)

Pharmacokinetics
Microdialysis; Cocaine; Sensitization; Benzoylecgonine; Metabolism (Pettit, H.O. (651) 261)

Apomorphine; Dopamine; Striatum; Cerebral asymmetry (Hyde, J.F. (655) 83)

Intracerebral microdialysis; Condition; Brain; Rat; Acetaminophen; Atenolol; Blood–brain barrier (De Lange, E.C.M. (666) 1)

Amphetamine; Microdialysis; Nucleus accumbens; Stimulant; Inbred rats strain; Locomotion; Stereotyped behavior; Sensitization (Camp, D.M. (668) 180)

Pharmacology
Invertebrate; *Hermissenda*; GABA; $GABA_B$; G protein (Rogers, R.F. (650) 93)

Phase
Hippocampus; Rhythmical slow activity; Theta; Electroencephalogram; Neural oscillation; Coherence; Commissural connection (Kocsis, B. (660) 341)

***Phaseolus vulgaris*-leucoagglutinin**
Superior colliculus; Subthalamic nucleus; Orienting behavior; Basal ganglia; Fluoro-Gold (Tokuno, H. (639) 156)

Basal ganglia; Globus pallidus; Neuronal morphology; Anterograde tracing (Rajakumar, N. (651) 332)

Entopeduncular nucleus; Basal ganglia; Biocytin; Globus pallidus; Direct pathway; Indirect pathway (Bevan, M.D. (659) 99)

***Phaseolus vulgaris* leucoagglutinin**
Superior colliculus; Reticular formation; Substantia nigra; Wheat germ agglutinin-horseradish peroxidase; Rat (Yasui, Y. (656) 420)

Nucleus of solitary tract; Parabrachial nucleus; Central nucleus of the amygdala; Degeneration; Electron microscope; Rat (Jia, H.-G. (663) 181)

Phase–response curve
Gastrin releasing peptide; Peptide histidine isoleucine; Light; Circadian pacemaker; Entrainment (Peters, R.V. (639) 217)

Phase shift
Activity; Circadian rhythm; Hamster; Intergeniculate leaflet; Nonphotic; Triazolam (Janik, D. (651) 174)

Phencyclidine
Morphine; Analgesia; NMDA receptor; Opiate tolerance; MK-801; Dizocilpine; Dextrorphan; Ketamine; Neuroplasticity (Trujillo, K.A. (633) 178)

MK-801; Dopamine; Prefrontal cortex; Microdialysis (Hondo, H. (633) 337)

Excitatory amino acid; NMDA; Microdialysis; Electrophysiology (Wang, T. (666) 255)

Phenobarbital
Anteromedial cortex lesion; Recovery of function; Somatosensory asymmetry; Anticonvulsants (Hernandez, T.D. (635) 300)

Methamphetamine; Neurotoxicity; Environmental temperature; Dopamine; Serotonin; MK-801; Diazepam (Ali, S.F. (658) 33)

Phentolamine
Chromaffin cell; Hyperalgesia; Naloxone; Neural transplantation; Peripheral neuropathy (Hama, A.T. (651) 183)

D-Phenylalanine
Taste enhancement; Saccharin; Monkey chorda tympani nerve; Sweet taste receptor site; Single fiber response (Ninomiya, Y. (635) 335)

Phenylephrine
Blood pressure; Heart rate; Baroreflex; L-Glutamate; *p*-Chloromercuriphenylsalfonic acid; Rostral ventrolateral medulla; Conscious rat (Mao, L. (654) 343)

Phenylethanolamine-*N*-methyltransferase
Noradrenaline; Adrenaline; Immunohistochemistry; Aging; Tyrosine hydroxylase; Brainstem; Sprague–Dawley rat (Monji, A. (641) 171)

***R*-Phenylisopropyladenosine**
Forebrain ischemia; Amino acid release; Microdialysis; Behavior; Neuronal damage; Rat (Héron, A. (641) 217)

***α*-Phenyl-*N*-tert-butyl nitrone**
Cerebral ischemia; Cerebral edema; Middle cerebral artery occlusion; Free radical (Cao, X. (644) 267)

17-Phenyl-ω-trinor PGE_2
Prostaglandin E_2; Thermal hyperalgesia; Analgesia; Pain; M&B28767; Central nervous system (Oka, T. (663) 287)

Phenytoin
Spatial memory; Radial arm maze; Hippocampus; Stress; Tianeptine (Luine, V. (639) 167)

Pheochromocytoma
Ciliary neurotrophic factor; Nerve growth factor; PC12 cell (Zhong, W. (661) 56)

Pheochromocytoma cell
Amyloid; Alzheimer's disease; Toxicity; β-Amyloid peptide (Fukuyama, R. (667) 269)

Phodopus sungorus
Age; Circadian; Djungarian hamster; Hypothalamus; Immunocytochemistry; Neuropeptide; Rhythm; Photoperiod; Sex; Substance P; Suprachiasmatic nucleus (Reuss, S. (638) 189)

Phorbol ester
Acetylcholine; Brain microvessel; Endothelial cell; Radioimmunoassay (Ikeda, C. (655) 147)

Metabotropic receptor; Quisqualate; DCG-IV; Hippocampal slice (Genazzani, A.A. (659) 10)

Estrogen; Intracerebral infusion; Lordosis; Midbrain central gray; Protein kinase C; Protein kinase C inhibitor; RU486; Tetradecanoyl phorbol acetate; Hypothalamic ventromedial nucleus (Kow, L.-M. (660) 241)

Traumatic brain injury; Protein kinase C; NMDA receptor; MK-801; Brain (Sun, F.-Y. (661) 63)

Thyrotropin-releasing hormone; Neuromodulation; Resting K^+ conductance; Protein kinase C; IP_3; BAPTA; EGTA; Intracellular calcium; Forskolin; Adenylate cyclase (Bayliss, D.A. (668) 220)

Phosphatidylcholine hydroperoxide
Aging; HPLC-chemiluminescence; Hydroxyl radical; Hippocampus; Striatum; Cortex (Zhang, J.-R. (639) 275)

Phosphatidylinositol-4-monophosphate
Cl^- pump; Cl^- transport; Electrogenic; Cl^--ATPase; Reconstitution (Zeng, X.-T. (641) 167)

Phosphatidylserine
Olfactory bulbar response; Lipid; Fatty acid; Turtle; Odor reception (Taniguchi, M. (647) 10)

Phosphocreatine
ATP; Cyclic guanosine 3′5′-monophosphate; Energy metabolite; Intracellular pH; Lactate; Rat brain; Spreading depression (Gault, L.M. (641) 176)

Phosphodiesterase
Extracellular cGMP; Guanylyl cyclase; Nitric oxide; Nitric oxide synthase; N^G-Nitro-L-arginine methyl ester (Laitinen, J.T. (668) 117)

Phosphoinositide
Hippocampus; Long-term potentiation; G protein; ACPD receptor (Breakwell, N.A. (633) 72)

Barrel rotation; Flocculus; Copula pyramis; Inferior olive; cGMP; Epilepsy model (Chew, B.H. (647) 345)

Phosphoinositide hydrolysis
Polychlorinated biphenyl congener; [^{3}H]Phorbol ester binding; Cerebellar granule cell (Kodavanti, P.R.S. (662) 75)

D-Fenfluramine; *p*-Chloroamphetamine; Serotonin; Carbachol; Rat cortex; Alzheimer's disease (Erfurth, A. (665) 107)

Phospholipase
Cerebral ischemia; Excitatory amino acid; Free fatty acid; Hippocampus (Katayama, Y. (635) 331)

Phospholipase A_2
Astrocyte; Cortex; Astrocytoma; Eicosanoid; Inflammation (Stephenson, D.T. (637) 97)

Endothelin; Blood–brain barrier (Vigne, P. (651) 342)

Endotoxic shock; Forebrain ischemia; Rat hippocampus (Lauritzen, I. (651) 353)

Phospholipase C
U73122; Bradykinin; NG108-15; Dorsal root ganglion neuron; Intracellular calcium (Jin, W. (642) 237)

Phospholipid
Palmitic acid; Arachidonic acid; Brain; Fatty acid; β-Oxidation; Methyl palmoxirate (Freed, L.M. (645) 41)

Brain tumor; ^{31}P nuclear magnetic resonance spectroscopy (Merchant, T.E. (649) 1)

Phosphorylation
Glutamate; Tau; Primary neuronal culture (Sindou, Ph. (646) 124)

Alkaloid; Alzheimer's disease; Calcium; Free radical; Fura-2; Neurodegeneration; Neurotrophic factor (Goodman, Y. (650) 170)

Acid phosphatase; Low molecular weight; Tyrosine; Epidermal growth factor receptor; Brain; Alzheimer's disease (Shimohama, S. (662) 185)

Photoelectric method
Autoregulation of cerebral blood flow; Cerebral blood volume; Cerebral microvessel; Hypotension; N^G-monomethyl-L-arginine; Nitric oxide; Vascular tone (Kobari, M. (667) 255)

Photoentrainment
Circadian rhythm; Melatonin (Wolfe, M.S. (662) 273)

Photoperiod
Age; Circadian; Djungarian hamster; Hypothalamus; Immunocytochemistry; Neuropeptide; *Phodopus sungorus*; Rhythm; Sex; Substance P; Suprachiasmatic nucleus (Reuss, S. (638) 189)

Pineal; Melatonin; Suprachiasmatic nucleus; Pars tuberalis; Photorefractory (Duncan, M.J. (640) 316)

Melatonin; Ground squirrel; Guinea pig; Suprachiasmatic nucleus; Pars tuberalis (Bittman, E.L. (648) 73)

Quail; Preoptic area; Sexual behavior; Testosterone (Thompson, R.R. (667) 201)

Photoperiodic perception
Retinohypothalamic tract; Circadian rhythm; Immediate early gene expression; Visual system (Vuillez, P. (654) 81)

Photoreceptor
Regeneration; Human retina; Retina grafting (Hicks, D. (643) 302)

Aging; Retina; Fischer 344 rat; Neural degeneration; Peripheral degeneration (DiLoreto Jr., D. (647) 181)

Photorefractory
Pineal; Melatonin; Suprachiasmatic nucleus; Pars tuberalis; Photoperiod (Duncan, M.J. (640) 316)

Photothrombosis
Excitatory amino acid; NMDA antagonist; Stroke; Focal cerebral ischemia; Glutamate (Yao, H. (642) 117)

Phrenic
Central pattern generator; Medium-frequency oscillation; Bicuculline; Hypoglossal; Piglet (Steele, A.M. (650) 166)

Phrenic motoneuron
Respiratory neuron; Ventral respiratory group; Respiratory control; Neurobiotin; Crossed-phrenic phenomenon (Lipski, J. (640) 171)

Phrenic nerve
Respiratory timing; Parabrachial complex; Decerebration; Inspiratory duration; Pons (Morrison, S.F. (652) 83)

Carotid body; Chemoreceptor; Muscimol; Respiration (Chitravanshi, V.C. (662) 127)

Phycoerythrin-conjugated
Cytokine receptor; Human immunodeficiency virus; Nervous system; Laser scanning confocal microscopy (Masliah, E. (663) 1)

Phyllolitorin analogue
Neuromedin C; Grooming behavior; Scratching; Bombesin antagonist (Masui, A. (637) 331)

Physostigmine
Deoxyglucose; Scopolamine; Alzheimer's disease (Blin, J. (635) 196)

Memory and learning; Somatostatin; Cholinergic; Passive avoidance; Nucleus basalis magnocellularis; Cysteamine; FR121196 (Matsuoka, N. (642) 11)

Atropine sulfate; Autospectral analysis; Baroreceptor denervation; Decerebrate cat; Urethane anesthesia; 2–6-Hz oscillation (Orer, H.S. (661) 283)

Basal forebrain; Substantia innominata; Cortical blood flow; Cortical PO_2; Cortical PCO_2; Aging; Alzheimer's disease; Fischer 344 rat; Cerebral blood-flow regulation; Helium clearance; Intrinsic cholinergic innervation (Sercombe, R. (662) 155)

Pial arterial resting tone
Spreading depression; Nitric oxide; Functional hyperemia; Calcitonin gene-related peptide; Cerebral microcirculation (Wahl, M. (637) 204)

Pia mater
Rat; Ventral root; C-fiber; Sciatic nerve; Crush; Electron microscopy; Immunohistochemistry (Karlsson, M. (667) 39)

Pick body
Ballooned neuron; Complement membrane attack complex; Clusterin; Vitronectin; Protectin (Yasuhara, O. (652) 346)

Picolinic acid
Quinolinic acid; NADPH-diaphorase; Striatum; Osmotic minipump (Kalisch, B.E. (668) 1)

Picrotoxin
Dopamine release; Retina; ON channel; 2-Amino-4-phosphonobutyric acid; ACPD; GABA; Excitatory amino acid; Glutamate receptor (Boatright, J.H. (649) 339)

Epilepsy; Flunarizine; Verapamil; GABA; Calcium channel blocker (Straub, H. (658) 119)

Picrotoxinin
Stress control; Coping; Strychnine; Seizure; Chloride channel; TBPS; Receptor binding; GABA shift; Anticonvulsant; Endogenous benzodiazepine (Drugan, R.C. (661) 127)

Pig
Prostaglandin; Fever; Fos; Hypothalamus (Vellucci, S.V. (646) 165)

Pigeon
2-Deoxyglucose; Subfornical organ; Thirst; Water deprivation (Heuston, K. (654) 331)

Piglet
Repeated ischemia; Cerebral ischemia; Magnetic resonance spectroscopy; Glucose (Laptook, A.R. (638) 78)

Magnesium; NMDA receptor; Hypoxia; Brain; MK-801; Na^+,K^+-ATPase (Hoffman, D.J. (644) 144)

Central pattern generator; Medium-frequency oscillation; Bicuculline; Phrenic; Hypoglossal (Steele, A.M. (650) 166)

Pigmented rat
GABA transmission; Baclofen; CGP 35348; Vestibulo-oculomotor system; Opto-oculomotor system; Saccade (Niklasson, M. (649) 151)

Pilocarpine
Lithium; Seizure-induced damage; Diencephalon; Telencephalon; Rat brain damage (Bureau, Y.R.J. (648) 265)

Pineal
Cholera toxin; cAMP; $G_s\alpha$; *N*-Acetyltransferase (Babila, T. (638) 151)

Melatonin; Suprachiasmatic nucleus; Pars tuberalis; Photoperiod; Photorefractory (Duncan, M.J. (640) 316)

Circadian rhythm; Superior cervical ganglionectomy; ACTH; Corticosterone; 6-Sulphatoxymelatonin; Rat (Siaud, P. (652) 273)

Pinealectomy
Melatonin receptor; Light-dark cycle; Pars tuberalis; Suprachiasmatic nucleus; Constant darkness; Desensitization (Gauer, F. (641) 92)

Pineal gland
Circadian rhythm; Melatonin; Cell culture (Murakami, N. (651) 209)

Pinealocyte
Serotonin; Melatonin; Ketanserine (Olcese, J. (643) 150)

Piperine
Capsaicin; Glossopharyngeal nerve; Electrophysiology; Cross-adaptation; Desensitization (Yoshii, K. (637) 68)

Pirenzepine
Experimental epilepsy; Generalized seizure; Cholinergic system; Muscarinic receptor; Muscarinic M_1 receptor; Carbachol; Mecamylamine; Intracerebral injection; Zona incerta; Rat (Cruickshank, J.W. (643) 125)

Muscarinic M_1 receptor; Muscarinic M_2 receptor; AF102B; Methoctramine; Hippocampus; Working memory; Reference memory (Ohno, M. (650) 260)

Pirenzipine
Fluid percussion; AFDX384; Acetylcholine; Autoradiography; Hippocampus; Traumatic brain injury; Receptor binding (DeAngelis, M.M. (653) 39)

Piriform cortex
Kindling; Neuroprotection; Kainic acid; Status epilepticus; Epilepsy; Hippocampus; Substantia nigra (Kelly, M.E. (634) 245)

Area tempestas; Epilepsy; GABA; Glutamate; Limbic seizure; Entorhinal cortex; Perirhinal cortex (Halonen, T. (652) 145)

Brain injury; NMDA receptor; Lactation; Progesterone; Fos immunohistochemistry; Rat (Amir, S. (652) 341)

Baclofen; Laminar selectivity; Synaptic transmission; $GABA_B$ receptor; Intrinsic fiber (Tang, A.C. (659) 75)

Pituitary adenylate cyclase activating polypeptide (PACAP)
Astrocyte; Interleukin-6; Interleukin-1β; Vasoactive intestinal polypeptide (Gottschall, P.E. (637) 197)

Mammalian retina; Adenylyl cyclase (Onali, P. (641) 132)

Tyrosine hydroxylase; Prolactin; Median eminence; Striatum; Lactation; Ovariectomized; Dopamine (Arbogast, L.A. (655) 17)

Astrocyte; Calcium mobilization; Intracellular communication; Second messenger (Tatsuno, I. (662) 1)

Pituitary adenylate cyclase-activating peptide
Prolactin; Gene expression; Hypothalamus; Polymerase chain reaction; Sleep; Vasoactive intestinal peptide (Bredow, S. (660) 301)

Pituitary cell
Ca^{2+}-activated K^+ channel; Prolactin secretion; Dopamine; Nifedipine; Perifusion; Charybdotoxin; Apamin (Wang, X. (662) 83)

Pituitary cell culture
Taurine; Luteinizing hormone; Luteinizing hormone-releasing hormone; Mediobasal hypothalamus; Superfusion; NMDA (Arias, P. (634) 325)

Pituitary gland
Vasopressin; Cerebrospinal fluid; Median eminence; Immunocytochemistry; Neuroendocrine regulation (Cloft, H.J. (639) 233)

α-Neoendorphin; Microdialysis; Circadian rhythm; Naloxone (Konya, H. (665) 130)

Pituitary implantation
Prolactin; Receptor; Rat hypothalamus; Ovine prolactin; Domperidone; Bromocriptine (Muccioli, G. (663) 244)

Place cell
Lateral dorsal thalamus; Hippocampus; Spatial learning (Mizumori, S.J.Y. (644) 168)

Plantar injection
Afferent fiber; Hindpaw; Mechanical stimulation; Thermal stimulation; Pain (Fukuoka, H. (657) 133)

Plaque
Amyloid precursor protein; Cholinesterases; Alzheimer's disease; Tangle (Geula, C. (644) 327)

Alzheimer's disease; Striatum; Tangle; Limbic system; Ventral striatum (Selden, N. (648) 327)

Plasma membrane
Calcium transport; Calcium permeability; Calcium homeostasis; Neurodegeneration; Brain aging (Colvin, R.A. (665) 192)

Plasma protein extravasation
Rat; Ventral root; C-fiber; Capsaicin; Electron microscopy; Immunohistochemistry (Karlsson, M. (642) 244)

Plasma renin activity
5-Carboxyamidotryptamine; Sodium appetite; Hypotension; Fos-like immunoreactivity (Rowland, N.E. (664) 148)

Plasticity
Nerve injury; Dorsal horn; Rat; Primary sensory neuron; Spinal cord; Postsynaptic dorsal column pathway; Immediate early gene (Molander, C. (644) 74)

Nerve regeneration; Spinal cord repair; Neural transplantion; Brachial plexus (Bertelli, J.A. (644) 150)

Gene expression; Growth-associated gene; GAP-43; Stathmin; p19; MAP2; α1-Tubulin; Brain; Neuron; In situ hybridization (Himi, T. (655) 177)

Brain injury; Head trauma; Recovery of function; Catecholamine (Dunn-Meynell, A. (660) 88)

Glia; Astrocyte; Visual system; Deprivation; Afferent activity (Canady, K.S. (663) 206)

Stimulation-produced analgesia; Morphine microinjection; Periaqueductal gray; Formalin pain; Central sensitization (Vaccarino, A.L. (666) 104)

Cerebellum; Renin angiotensin; Angiotensinogen mRNA; Bergmann glial cell (Lippoldt, A. (668) 144)

Platelet activating factor binding
Autoradiography; Brain; Ischemia-reperfusion; Immunoreactive PAF concentration (Domingo, M.T. (640) 268)

Platelet-derived growth factor
Rat; Axotomy; Platelet-derived growth factor receptor; Vagus nerve; Degeneration (Yamada, E. (651) 108)

Gliosis; Brain macrophage; Immunohistochemistry; Brain injury (Takayama, S. (653) 131)

Platelet-derived growth factor receptor
Rat; Axotomy; Platelet-derived growth factor; Vagus nerve; Degeneration (Yamada, E. (651) 108)

Pneumococcal meningitis
Methylprednisolone; Bacterial meningitis; Cerebral blood flow; Brain edema; Intracranial pressure (Koedel, U. (644) 25)

PN200-110 (isradipine)
Global cerebral ischemia; Autoradiography; Voltage-dependent calcium channel; Hippocampus; ω-Conotoxin GVIA (Perry, D.C. (657) 65)

^{31}P-NMR
Hypoxia; Brain cell membrane; Lipid peroxidation; Xanthine oxidase; Uric acid; Energy metabolism; Allopurinol (Marro, P.J. (650) 9)

^{31}P NMR spectroscopy
Astrocyte; Cerebral ischemia; Compartmentation; Glia; Neuron; pH (Sunagawa, S. (641) 328)

PNMT-containing neuron
Intracellular recording; Rostral ventrolateral medulla; EPSP; Antidromic activation; Intracellular labeling (Granata, A.R. (648) 299)

^{31}P nuclear magnetic resonance spectroscopy
Brain tumor; Phospholipid (Merchant, T.E. (649) 1)

Point mutation
Low affinity nerve growth factor receptor; Nerve growth factor; Hypertension; Nucleotide sequence; Spontaneously hypertensive rat; Signal peptide (Nemoto, K. (655) 267)

Poisson distribution
Neurofilament protein; Cytoskeleton; Axon; Cluster analysis; Statistical model; Probability; Space-time clustering (Hsieh, S.-T. (642) 316)

Polarization
Brain spectrin; Cerebellum; Erythroid spectrin; Non-erythroid spectrin; Neuronal cytoskeleton; Spectrin isoform (Clark, M.B. (663) 223)

Polyamine
Lithium; Ornithine decarboxylase; Putrescine; Spermidine; Spermine; Dexamethasone; Brain; Rat (Gilad, G.M. (636) 187)

CA1; Hippocampus; NMDA; Spermine (DiScenna, P.G. (647) 353)

Polyamine site
[^{14}C]2-Deoxyglucose; Autoradiography; Eliprodil; NMDA receptor (Cudennec, A. (664) 41)

Polyarthritic rat
Pain; Ventromedial medulla; Single-unit activity; Freely moving rat (Montagne-Clavel, J. (657) 92)

Polychlorinated biphenyl congener
Phosphoinositide hydrolysis; [^{3}H]Phorbol ester binding; Cerebellar granule cell (Kodavanti, P.R.S. (662) 75)

Polyclonal antibody
Recovery, in vitro; Paraventricular nucleus; Insulin; Rat (Lambert, P.D. (656) 135)

Polymerase chain reaction
Cytokine; Interleukin-10; Gene; Malignant glioma (Nitta, T. (649) 122)

Immunohistochemistry; Factor XII; Protamine; Kaolin (Yasuhara, O. (654) 234)

Prolactin; Gene expression; Hypothalamus; Sleep; Vasoactive intestinal peptide; Pituitary adenylate cyclase-activating peptide (Bredow, S. (660) 301)

Polymodal sensory
Sensory–motor convergence; Substantia nigra; Awake monkey; Unit activity; Motor control (Magariños-Ascone, C. (646) 299)

Polysensory
Auditory cortex; Somatosensory cortex; Evoked potential (Di, S. (642) 267)

Polysynaptic neuron
Electrophysiology; Serotonin; Ipsilateral abducens nucleus; Lateral vestibular nucleus (Kishimoto, T. (644) 47)

Pons
Control of breathing; Hypoglossal motoneuron; Microdialysis; REM sleep; Serotonin; Sleep apnea syndrome; Upper airway (Kubin, L. (645) 291)

Phrenic nerve; Respiratory timing; Parabrachial complex; Decerebration; Inspiratory duration (Morrison, S.F. (652) 83)

Pontine parabrachial nucleus
Taste aversion conditioning; Nucleus of the solitary tract; c-Fos; Learning; Emetic drug (Swank, M.W. (636) 202)

Pontine respiratory group
Kölliker-Fuse nucleus; Neural control of respiration; Intracellular recording; In vivo; Cat (Dick, T.E. (636) 259)

Pontine reticular nucleus
Muscarinic receptor; Muscarinic antagonist; Desynchronized sleep; Rat; Methoctramine (Imeri, L. (636) 68)

Ponto-geniculo-occipital wave
Active sleep; Digastric; Postsynaptic inhibition; Parvocellularis (Pedroarena, C. (653) 31)

Population potential
Nucleus reticularis gigantocellularis; Sucrose gap; Carbachol; Inhibition; Active sleep (Yamuy, J. (639) 313)

Population spike
Brain ischemia; Glucose-oxygen deprivation; Acidosis; Lactic acidosis; CO_2 acidosis; Hippocampus (Morimoto, Y. (654) 273)

Hippocampus; Spreading depression; High potassium; Glutamate; Adenosine; Adenosine uptake blocker; Microdialysis (Kaku, T. (658) 39)

Porcine brain natriuretic peptide
Guanylate cyclase; Ultracytochemistry; Rat atrial natriuretic factor; Neurohypophysis; Rat (Rambotti, M.G. (644) 52)

Positron emission tomography
Cholinergic system; Cerebral stimulation; Scopolamine; Regional cerebral blood flow; Regional cerebral glucose metabolism (Ogawa, M. (650) 249)

Regional cerebral blood flow; Taste stimulation; Insular cortex; Cingulate cortex (Kinomura, S. (659) 263)

Ketamine; NMDA receptor; Dopamine D_2 receptor; Anesthesia; Striatum; Monkey (Onoe, H. (663) 191)

Regional cerebral blood flow; Somatosensory discrimination; Correlation analysis; Neuronal network (Kawashima, R. (663) 251)

Acetylcholinesterase; Brain; Rat; Monkey; Alzheimer's disease; Central cholinergic system; Nucleus basalis magnocellularis (Namba, H. (667) 278)

Posterior thalamic complex
Dorsal lateral geniculate nucleus; Superior colliculus; Corticotectal projection; Thalamic reticular nucleus; Lateral posterior nucleus; Intralaminar thalamic nuclei (Deschênes, M. (664) 215)

Postischemic hyperperfusion
Hypothermia; Focal cerebral ischemia; Oxygen free radical; Ascorbate; Glutathione; Delayed postischemic hypoperfusion (Karibe, H. (649) 12)

Post-ischemic hypothermia
Cerebral ischemia; Gerbil; Delayed neuronal death; Open field (Colbourne, F. (654) 265)

Post-mortem
Serotonin receptor; Serotonin 5-HT_{1D} receptor; Serotonin 5-HT_{1E} receptor; Human brain; Autoradiography; Serotonin (Barone, P. (638) 85)

Postmortem
Immunocytochemistry; GABA; Glycine; Glutamate; Taurine; Retina; Glia (Pow, D.V. (653) 199)

Postmortem human brain
Adenylyl cyclase; Depression; G-protein; Suicide (Cowburn, R.F. (633) 297)

Post-mortem human brain
G-protein; Adenylyl cyclase; Alzheimer's disease; Signal transduction (O'Neill, C. (636) 193)

Postnatal
Cocaine; Prenatal; Mazindol; Dopamine uptake site; Striatum; Rat (Stadlin, A. (637) 345)

Postnatal development
Argyrophilic nucleolar region; Undernutrition; Mammillary body; Rat (González-Pardo, H. (654) 75)

Postsynaptic dorsal column pathway
Nerve injury; Dorsal horn; Rat; Primary sensory neuron; Plasticity; Spinal cord; Immediate early gene (Molander, C. (644) 74)

Postsynaptic inhibition
Bicuculline; $GABA_B$ antagonist; Spike facilitation; Input–output curve; Presynaptic facilitation; Neural processing (Leung, L.S. (650) 75)

Active sleep; Digastric; Parvocellularis; Ponto-geniculo-occipital wave (Pedroarena, C. (653) 31)

Postsynaptic plasticity
Long-term memory; Chick; Spine (Lowndes, M. (654) 129)

Postsynaptic potential
Hippocampus; CA1; Dehydroepiandrosterone sulfate; Neurosteroid; Excitatory postsynaptic potential; Inhibitory postsynaptic potential; Field potential (Meyer, J.H. (633) 253)

Postsynaptic response
Graft; Striatum; Corticostriatal afferent; Transplantation (Labandeira-Garcia, J.L. (652) 87)

Potassium
Cerebral anoxia; Cerebral ischemia; Depolarization; Hippocampus; Calcium; Sodium; ATP (Kass, I.S. (633) 262)

Epilepsy; Long-term potentiation; Long-term depression; Interictal; Ictal; Seizure; Hippocampus (Contzen, R. (653) 340)

Cerebellar granule neuron; Depolarization; Apoptosis; Excitotoxicity; Excitatory amino acid receptor (Weller, G.-M.Y.B.N.M. (656) 43)

Astrocyte; Cerebellar granule cell; Cerebral cortical neuron; Deoxyglucose; Energy metabolism (Peng, L. (663) 168)

Long-term potentiation; MK-801; 4-Aminopyridine; Veratridine (Canevari, L. (667) 115)

Potassium channel
Long-term potentiation; Hippocampus; Fiber volley; Tetraethylammonium; 4-Aminopyridine; Presynaptic; Action potential (Lærum, H. (637) 349)

Neuromuscular junction; Neurotransmitter release; Calcium channel; Synaptic current (Miralles, F. (641) 279)

Epilepsy; Oocyte; Pentylenetetrazol; Epileptogenic agent (Madeja, M. (656) 287)

Guinea pig; Cochlea; Outer hair cell; Patch-clamp; Resting potential (Nakagawa, T. (661) 293)

Potassium current
Quisqualate; Glutamate receptor; Protein phosphorylation; Ca^{2+}/calmodulin-dependent protein kinase II; Snail neuron (Onozuka, M. (650) 336)

Glutamate; Glutamate receptor; Protein phosphorylation; Ca^{2+}/calmodulin-dependent protein kinase II; Snail neuron (Watanabe, K. (654) 352)

Potassium depolarization
Retina cell; Oxidative stress; GABA release; Excitatory amino acid; Glutamate antagonist (Agostinho, P. (655) 213)

Potentiation
Axoplasmic transport; Adrenaline; Neurotransmitter; Superior cervical ganglion cell; Organelle motion; Axonal transport regulation (Takenaka, T. (643) 81)

PPTg
Catalepsy; Locomotion; Opiate; Brainstem (Olmstead, M.C. (662) 134)

P_2-purinoceptor antagonist
Antinociception; Rat tail-flick test; Rat formalin test; α,β-Methylene ATP; 2-Methylthio-ATP; Intrathecal drug application (Driessen, B. (666) 182)

Prader-(Labhart)-Willi
7B2; Immunocytochemistry; Hypothalamus; Chromosome 15; Vasopressin-associated glycopeptide (Gabreëls, B.A.Th.F. (657) 281)

Pre- and postsynaptic receptor
Brain neuromediator system; Immune response; Psychoneuroimmunomodulation (Devoino, L. (633) 267)

Predator odor
Anxiety; Anxiolytic; Odor preference; Neurosteroid; 3α-Hydroxy-4-pregnen-20-one; GABA acid; GABA receptor (Kavaliers, M. (645) 325)

Prefrontal cortex
Phencyclidine; MK-801; Dopamine; Microdialysis (Hondo, H. (633) 337)

Rat; Cortico-nigral projection; Anterograde tracing; Biotinylated dextran amine; Substantia nigra; Light microscopy (Naito, A. (637) 317)

Acetylcholine; Dialysis; Electrical stimulation; Striatum (Taber, M.T. (639) 354)

Microdialysis; Intracerebral transplantation; Parkinson's disease; Ventral tegmental area; Substantia nigra; Ventral striatum; Paw-reaching; Staircase test (Cenci, M.A. (641) 225)

Serotonin; Supragenual; Cingulate; Excitatory amino acid; Glutamatergic; Corticocortical; Spiperone (Read, H.L. (643) 17)

Cortex; Development; Recovery of function; Frontal cortex; Parietal cortex; Dendrite (Kolb, B. (645) 85)

Dopamine; Acetylcholine; Rat; Delayed-matching-to-position; Short-term memory (Broersen, L.M. (645) 113)

Nigrothalamic projection; Substantia nigra; Mediodorsal nucleus; Electrophysiology; Cat (Miyamoto, Y. (649) 313)

Spatial learning and memory; Flexibility; Morris water maze; Rat (De Bruin, J.P.C. (652) 323)

Norepinephrine; Dopamine; Amphetamine; Cocaine; Clonidine; Hippocampus; Microdialysis; Caudate (Florin, S.M. (654) 53)

Cocaine kindling; Hippocampus; Sensitization (Schenk, S. (659) 17)

Immediate early gene; c-*fos*; Dopamine agonist; Intracerebral neural grafting; Transplantation; Embryonic ventral mesencephalon (Cenci, M.A. (665) 167)

Preganglionic neuron
Medulla oblongata; Sympathetic; Vasomotor; Monosynaptic; Blood pressure (McAllen, R.M. (634) 227)

Sympathetic ganglion; Tonic activity; Neuropeptide turnover; Neuropeptide release (Maher, E. (640) 131)

Pregnancy
Luteinizing hormone; κ Opioid receptor; Norepinephrine; Dopamine; Medial basal hypothalamus; Push–pull perfusion (Zhen, S. (642) 178)

Endothelin; Gestation; Hypothalamus; Neurohypophysis; Oxytocin (Horwitz, M.J. (648) 59)

Pre-loading
Brainstem; Microdialysis; Noradrenaline; Preoptic area; Rat (Fernández-Galaz, C. (636) 227)

Prenatal
Cocaine; Dopamine; Striatum; Microdialysis (Keller Jr., R.W. (634) 266)

Cocaine; Mazindol; Dopamine uptake site; Striatum; Postnatal; Rat (Stadlin, A. (637) 345)

Prenatal exposure to ethanol
Astrocyte; Nerve growth factor; Nerve growth factor receptor (Vallés, S. (656) 281)

Prenatal protein malnutrition
Hippocampus; CA3 pyramidal cell; Morphometric Golgi study; Malnutrition; Hippocampal formation (Díaz-Cintra, S. (662) 117)

Preoptic / anterior hypothalamus
NREM sleep; Slow-wave sleep; EEG; Delta activity; Thermoregulation; Warming (McGinty, D. (667) 273)

Preoptic area
Fever; *Candida albicans*; Thermoregulation; Anterior hypothalamus; Fungus; Temperature; Microinjection; Pyrogen contamination; Brain; Rat; Intracerebral injection; Hyperthermia (Barwick, V.S. (635) 1)

Brainstem; Microdialysis; Noradrenaline; Pre-loading; Rat (Fernández-Galaz, C. (636) 227)

Reproduction; Sexual behavior; Japanese quail; *Coturnix japonica*; Aromatase synthesis (Foidart, A. (657) 105)

Morphine; Turnover; Norepinephrine; Dopamine; Hypothalamus (Vathy, I. (662) 209)

Quail; Photoperiod; Sexual behavior; Testosterone (Thompson, R.R. (667) 201)

Preoptic nucleus
Olfactory bulb; Periventricular nucleus; Supraoptic nucleus; Paraventricular nucleus; Arcuate nucleus; Median eminence; Sympathetic activity (Vatta, M. (646) 324)

Preoptic region
Vasotocin; Lateral septum; *Coturnix japonica*; Avian brain; Immunocytochemistry; Quantitative analysis (Viglietti-Panzica, C. (657) 171)

Preoptic stimulation
Specific thermogenic activation; Shivering vs. BAT thermogenesis (Thornhill, J. (656) 367)

Prepotential
Juxtacellular recording; GABA; Somatosensory system; Input-output analysis; Information processing (Vahle-Hinz, C. (637) 139)

Preproenkephalin
Striatum; Glutamate decarboxylase; Dopamine; mRNA (Soghomonian, J.-J. (640) 146)

Prepulse facilitation
Startle; Prepulse inhibition; Rat; Learning (Reijmers, L.G.J.E. (661) 174)

Prepulse inhibition
Blink reflex; Brainstem; Conditioned response; Reflex modification; Sensory gating (Valls-Solé, J. (650) 313)

Startle; Prepulse facilitation; Rat; Learning (Reijmers, L.G.J.E. (661) 174)

Pressoreceptor
4-Aminopyridine; Tetraethylammonium; Charybdotoxin (Reynolds, P.J. (665) 115)

Presynapse
Immunocytochemistry; Electron microscopy; Monkey; Protein kinase C; Hippocampus; Subspecies (Saito, N. (656) 245)

Presynaptic
Long-term potentiation; Hippocampus; Fiber volley; Tetraethylammonium; 4-Aminopyridine; Action potential; Potassium channel (Lærum, H. (637) 349)

Acetylcholine; Frequency depression; Glutamatergic synapse; Neuromodulation; Nucleus accumbens; Rhythmicity; Stimulus rate (Pennartz, C.M.A. (645) 231)

Presynaptic facilitation
Postsynaptic inhibition; Bicuculline; $GABA_B$ antagonist; Spike facilitation; Input–output curve; Neural processing (Leung, L.S. (650) 75)

Presynaptic fiber spike
Ischemia; Hippocampus; Dopamine; CA1; Neuroprotection (Yamamoto, Y. (665) 151)

Presynaptic inhibition
Primary afferent depolarization; Muscle afferent; Spinal cord; Motor cortex (Eguibar, J.R. (643) 328)

Antidromic spike; Primary afferent depolarization; Crayfish; Fictive locomotion (Cattaert, D. (666) 109)

Presynaptic potential
Vasopressin; Hippocampus; Hypoxia/hypoglycemia; Ischemia (Tanaka, T. (644) 343)

Presynaptic regulation
Excitatory amino acid; NMDA receptor antagonist; Bicuculline; Striatal compartment (Krebs, M.-O. (634) 345)

Pretectal area
Torus semicircularis; Tectum; Lesion; Neuropeptide Y; Frog (Kozicz, T. (635) 345)

Prevertebral
Sympathectomy; Neuropeptide Y; Substance P; Calcitonin gene-related peptide; Ganglion (Benarroch, E.E. (644) 322)

Primary afferent
Neurotrophin; Trigeminal; Immunocytochemistry; Glomerulus; Ultrastructure (Henry, M.A. (642) 137)

Dorsal column nucleus; Neurotrophic factor; Somatosensory; Topography (Foschini, D.R. (646) 1)

Primary afferent depolarization
Presynaptic inhibition; Muscle afferent; Spinal cord; Motor cortex (Eguibar, J.R. (643) 328)

Presynaptic inhibition; Antidromic spike; Crayfish; Fictive locomotion (Cattaert, D. (666) 109)

Primary afferent neuron
Tetrodotoxin-resistant; Spinal cord neuron; Sodium channel; Excitatory transmission (Jeftinija, S. (639) 125)

Primary afferent neuron sensitization
Bradykinin; Tetrodotoxin-resistant; Synaptic plasticity; Dorsal horn; Intracellular recording; Rat (Jeftinija, S. (665) 69)

Primary auditory cortex
Intracortical; Multichannel recording; AI; Cognitive; Evoked potential; Auditory (Javitt, D.C. (667) 192)

Primary culture
Corticosterone receptor; Hippocampus; Glucocorticoid; Mineralocorticoid (O'Donnell, D. (636) 49)

Acetylcholine; Cerebral cortex; Glutamate; NMDA; Neuroprotection; Nicotine (Akaike, A. (644) 181)

Astrocyte; Cell volume; Peripheral-type benzodiazepine receptor; Hypoosmolarity (Itzhak, Y. (644) 221)

3,5,3′-L-Triiodothyronine; Embryonic brain; Septum pellucidum; Neuron survival; Axon elongation (Filipčik, P. (647) 148)

Dopamine; Glutamate; Kainate; Neuroprotection; Neurotoxicity; Striatum (Amano, T. (655) 61)

Astrocyte; Dopamine; Serotonin; Norepinephrine; GABA; Glutamate; Peripheral benzodiazepine receptor (Itzhak, Y. (660) 346)

Cerebral cortex; Glutamate; Neuroprotection; Nitric oxide; *N*-Methyl-D-aspartate; Prostaglandin (Akaike, A. (663) 237)

Primary immunization
Microdialysis (in vivo); Serotonin; Frontal cortex; Cyclosporin A (Gardier, A.M. (645) 150)

Primary neuron
Na^+/Ca^{2+} exchanger; Ca^{2+} transport (Michaelis, M.L. (661) 104)

Primary neuronal culture
Agatoxin; Conotoxin; Glutamate; Hypoglycemia; Hypoxia; Ischemia; *N*-Methyl-D-aspartate (Koretz, B. (643) 334)

Glutamate; Tau; Phosphorylation (Sindou, Ph. (646) 124)

Primary sensory neuron
Glucocorticoid receptor; Immunocytochemistry; Neuropeptide; Spinal ganglion (DeLeón, M. (636) 338)

Nerve injury; Dorsal horn; Rat; Plasticity; Spinal cord; Postsynaptic dorsal column pathway; Immediate early gene (Molander, C. (644) 74)

Primate
Calbindin; Calcium-binding protein; Striatum; Associative cortical territory; Sensorimotor cortical territory; Macaque (François, C. (633) 331)

Area 17; Visual cortex; Somatosensory cortex; Corpus callosum; Development (Beck, P.D. (651) 57)

Deafferentation; Optic nerve injury; Immunocytochemistry (Gutierrez, C. (651) 300)

Prion protein
Scrapie; Electron microscopy; Immunogold (Jeffrey, M. (656) 329)

Probability
Neurofilament protein; Cytoskeleton; Axon; Poisson distribution; Cluster analysis; Statistical model; Space-time clustering (Hsieh, S.-T. (642) 316)

Procaine
Adenosine; Calcium-free; Sodium channel; Carbamazepine; Baclofen (Hosseinzadeh, H. (659) 221)

Process elongation
Transforming growth factor-β; Neuronal survival; Neurite sprouting; Hippocampal neuron; Cell culture (Ishihara, A. (639) 21)

Proenkephalin A
Corticotrophin-releasing factor; Vasopressin; Corticosterone; Stress; Rat strain (Harbuz, M.S. (667) 6)

Proestrus
Nitric oxide; Prolactin; Luteinizing hormone; Corticosterone; Steroid (Bonavera, J.J. (660) 175)

Progesterone
Estradiol; Dopamine receptor; Sex difference; Striatum; Quantitative autoradiography (Bazzett, T.J. (637) 163)

Kindling; Epilepsy; Estrous cycle; Estrogen; GABA; Antiepileptic drug; Drug resistance (Ebert, U. (638) 45)

5-α-Reductase; Neuronal cell; Glial cell; Rat; Culture (Melcangi, R.C. (639) 202)

$GABA_B$ receptor; $GABA_A$ receptor; Serotonin 5-HT_{1A} receptor; Neocortex; Hippocampus; Estros cycle; Steroid hormone; Estrogen (Al-Dahan, M.I. (640) 33)

Allopregnanolone; Steroid mechanism; Non-genomic; Neuroactivesteroid; Membrane; Tail flick latency; Nociception (Frye, C.A. (643) 194)

RU486; Gonadotropin-releasing hormone mRNA; Hypothalamus (Cho, B.N. (652) 177)

Brain injury; NMDA receptor; Lactation; Piriform cortex; Fos immunohistochemistry; Rat (Amir, S. (652) 341)

Adrenaline; Dopamine; Estradiol; Hypothalamus; Luteinizing hormone; Luteinizing hormone-releasing hormone; Neuropeptide Y; Noradrenaline; Prolactin; Sexual differentiation (Crowley, W.R. (663) 257)

Proglumide
Anxiety; Analgesia; CR1409; Cholecystokinin; Pain; Orienting response; Alerting; Hyperalgesia; Columnar organization (Liu, H. (642) 83)

Programmed cell death
Etoposide; Neuronal cell death; CNS neuron; Cycloheximide; Actinomycin D (Nakajima, M. (641) 350)

Protooncogene; Neuron; Glia; Tissue culture; Immunocytochemistry; Immunoblotting (Mizuguchi, M. (649) 197)

Progressive ratio
Amygdala; Cocaine; Dopamine; 6-Hydroxydopamine; Reinforcement; Self-administration (McGregor, A. (646) 273)

Progressive supranuclear palsy
Sulfonylurea; ATP-sensitive K^+ channel; Glibenclamide; Human brain; Parkinson's disease; Huntington's disease (Holemans, S. (642) 327)

Projection neuron
Immunocytochemistry; Purkinje cell; Pyramidal cell (Hoggatt, A.M. (665) 181)

Prolactin
Dopamine; Dihydroxyphenylacetic acid; Tyrosine hydroxylase; Gender difference; Hamster (Krajnak, K. (634) 159)

Sleep; Vasoactive intestinal polypeptide; REM (Obál Jr., F. (645) 143)

TIDA; Dopamine; Morphine; Haloperidol; Norepinephrine; Apomorphine; Luteinizing hormone; Tuberoinfundibular (He, J.-R. (653) 1)

Pituitary adenylate cyclase activating polypeptide; Tyrosine hydroxylase; Median eminence; Striatum; Lactation; Ovariectomized; Dopamine (Arbogast, L.A. (655) 17)

Tuberoinfundibular dopaminergic neuron; Microdialysis; Characterisation (Timmerman, W. (657) 275)

$GABA_A$ receptor; $GABA_B$ receptor; Tuberoinfundibular dopaminergic neuron; SR 95531; Tonic inhibition (Wagner, E.J. (659) 194)

Nitric oxide; Luteinizing hormone; Corticosterone; Steroid; Proestrus (Bonavera, J.J. (660) 175)

Gene expression; Hypothalamus; Polymerase chain reaction; Sleep; Vasoactive intestinal peptide; Pituitary adenylate cyclase-activating peptide (Bredow, S. (660) 301)

Receptor; Rat hypothalamus; Ovine prolactin; Domperidone; Bromocriptine; Pituitary implantation (Muccioli, G. (663) 244)

Adrenaline; Dopamine; Estradiol; Hypothalamus; Luteinizing hormone; Luteinizing hormone-releasing hormone; Neuropeptide Y; Noradrenaline; Progesterone; Sexual differentiation (Crowley, W.R. (663) 257)

Prolactin-like containing neuron
Rat brain; Lateral hypothalamus; Bradykinin; Dynorphin B; Immunocytochemistry; Electron microscopy (Griffond, B. (635) 179)

Prolactin secretion
Ca^{2+}-activated K^+ channel; Pituitary cell; Dopamine; Nifedipine; Perifusion; Charybdotoxin; Apamin (Wang, X. (662) 83)

Proliferation
Growth factor; Inhibition; Protein synthesis; Sciatic nerve (Edbladh, M. (641) 76)

Neurotrophin; Transforming growth factor β-2; Glia; Trk receptor (Ikeda, T. (649) 260)

Adult human; Astrogliosis; Cytokine; Interferon; Interleukin; Tumor necrosis factor (Tejada-Berges, T. (653) 297)

Astrocyte; Differentiation; Neuron; Humoral factor; Cell culture (Ohashi, M. (655) 255)

Proline-directed protein kinase
Protein phosphatase; Neurofibrillary tangle; Immunocytochemistry; Neuron; Alzheimer's disease (Pei, J.-J. (655) 70)

Proopiomelanocortin
β-Endorphin; γ_3-Melanocyte-stimulating hormone; Opioid antagonism; Naltrexone; Hypothalamus (Jaffe, S.B. (648) 24)

Propagation
Electroencephalogram; Cerebral blood flow; Limbic system; Kainate; Hippocampus; Seizure (Goto, Y. (634) 203)

Propranolol
Serotonin; Suprachiasmatic nucleus; Entrainment; Circadian; Light; DPAT; Metergoline; 5-CT; NAN-190; SDZ 216-525; $5\text{-}HT_{1A}$ receptor (Ying, S.-W. (651) 37)

Propriospinal
Choline acetyltransferase; Spinal cord; Retrograde transport; Rat; Immunocytochemistry (Sherriff, F.E. (634) 150)

***N*-Propylnorapomorphine**
Dopamine receptor; 7-Hydroxy-DPAT; G protein; Raclopride; Remoxipride; Quinpirole; Magnesium (Liu, Y. (643) 343)

Lesion; Nicotine; Methylcarbamylcholine; Protection; Neostriatum; Dopamine (Janson, A.M. (655) 25)

^{3}H-[Pro^9]SP
Autoradiography; Binding study; Brain; Guinea pig; NK_1 receptor; Rat; Selective agonist (Saffroy, M. (633) 317)

Prostacyclin
Brain capillary endothelial cell; Nitric oxide; Cytosolic calcium; Bradykinin; Angiotensin-converting enzyme inhibition (Wiemer, G. (638) 261)

Prostaglandin
Schwann cell; Prostanoid; Thromboxane; Inflammation (Constable, A.L. (635) 75)

Fever; Fos; Hypothalamus; Pig (Vellucci, S.V. (646) 165)

Excitotoxin; Neuroprotection; Lipid metabolism; Leukotriene; Free radical (Baran, H. (646) 201)

Fever; Adrenocorticotropic hormone; Endotoxin (Watanabe, T. (652) 201)

Scrapie; Cytokine; Lipocortin; Astrocyte; Mouse; Neurodegeneration (Williams, A.E. (654) 200)

Bradykinin; Capsaicin; Dorsal root ganglion; Sensory neuron (Hingtgen, C.M. (655) 51)

21-Aminosteroid; Tirilazad mesylate; Leukotriene (Andrus, P.K. (659) 126)

Cerebral cortex; Glutamate; Neuroprotection; Nitric oxide; *N*-Methyl-D-aspartate; Primary culture (Akaike, A. (663) 237)

Spinal cord; NMDA; Nitric oxide; Hyperalgesia; MK-801; D,L-2-Amino-5-phosphonovaleric acid, L-NAME; Ibuprofen; Acetyl salicylic acid (Wiertelak, E.P. (664) 9)

Prostaglandin E_1
Non-shivering thermogenesis; Cerebral cortex; Brown adipose tissue; Sympathetic activity; Oxygen consumption; Body temperature (Monda, M. (651) 148)

Prostaglandin E_2
Mycoplasma; Nitric oxide; Tumor necrosis factor α; Glial cell; Dexamethasone; Multiple sclerosis; AIDS dementia (Brenner, T. (641) 51)

Interleukin-1β; Hyperalgesia; Wide dynamic range neuron; Interleukin-1 receptor antagonist; α-Melanocyte stimulating hormone; Central nervous system; Pain (Oka, T. (656) 236)

Thermal hyperalgesia; Analgesia; Pain; M&B 28767; 17-Phenyl-ω-trinor PGE_2; Central nervous system (Oka, T. (663) 287)

Prostanoid
Schwann cell; Prostaglandin; Thromboxane; Inflammation (Constable, A.L. (635) 75)

Protamine
Immunohistochemistry; Factor XII; Polymerase chain reaction; Kaolin (Yasuhara, O. (654) 234)

Protease
Glycosylated protease; High molecular weight protease (Malik, M.N. (663) 341)

Protease inhibitor
Neuron; Lysosome; Dense bodies; Leupeptin; Amyloid precursor protein; Alzheimer's disease (Hajimohammadreza, I. (640) 25)

Protease-nexin-1
Thrombin; Blood vessel; Blood–brain barrier; Alzheimer's disease; Cerebrovascular injury (Vaughan, P.J. (668) 160)

Protectin
Pick body; Ballooned neuron; Complement membrane attack complex; Clusterin; Vitronectin (Yasuhara, O. (652) 346)

Protection
Kainate; Neurotoxicity; Convulsion; Neuronal damage; Zinc depletion (Pohle, W. (644) 297)

Neuronal cell; Astrocyte; Culture system; Humoral factor; Glutamate; Cytotoxicity (Amano, S. (645) 347)

Temporary deafness; Compound action potential audiogram; Olivocochlear efferent; Lignocaine; Cochlear destruction (Robertson, D. (646) 37)

Lesion; Nicotine; Methylcarbamylcholine; *N*-Propylnorapomorphine; Neostriatum; Dopamine (Janson, A.M. (655) 25)

Ischemia; 1,3-Butanediol; Neuronal loss; Ketone body; Hippocampus; CA1 (Sims, N.R. (662) 216)

Protective action
Chondroitin sulfate; Proteoglycan; Cell death; Excitotoxicity; Glutamate; Cell culture; Cortical neuron (Okamoto, M. (637) 57)

Protein 4.1
Neurofibrillary tangle; Alzheimer's disease; Membrane skeleton protein; Neurodegeneration (Sihag, R.K. (656) 14)

Protein kinase
Nodose ganglion; Serotonin 5-HT_3 receptor; Patch clamp; H-7; H-8 (Fan, P. (649) 310)

Calcium/calmodulin-dependent protein kinase II; Protein phosphorylation; Alzheimer's disease; Tau (Simonian, N.A. (657) 294)

Protein kinase A
Tyrosine hydroxylase; Protein phosphatase 2A (Berresheim, U. (637) 273)

Circadian rhythm; Suprachiasmatic nucleus; Serotonin; K^+ channel; Apamin; Charybdotoxin; cAMP (Prosser, R.A. (644) 67)

Protein kinase C
Alzheimer's disease; Reserpine; Rat brain; Western blot (Komachi, H. (634) 127)

Cyanide; Hypoxia; Arachidonic acid; Inward current; Reticulospinal sympathoexcitatory neuron; Rostral ventrolateral medulla (Sun, M.-K. (636) 245)

Retina; Calcium-independent (Osborne, N.N. (637) 156)

Axotomy; Isozyme; Histochemistry; Vagus nerve; Hypoglossal nerve (Yamada, E. (639) 341)

Apoptosis; Retinoic acid; Sensory neuron (Mailhos, C. (644) 7)

Long-term potentiation; Calcium; Hippocampus; CA1; EPSP; Rat (Cheng, G. (646) 230)

NMDA receptor; Nucleus tractus solitarii; Mg^{2+} block; Glycine; Development (Nabekura, J. (648) 152)

Opioid tolerance; Morphine; Butorphanol (Narita, M. (650) 175)

Nitric oxide; Acetylcholine; Carbachol; cGMP; Hemoglobin; Rat superior cervical sympathetic ganglia; Denervation; Axotomy (Ando, M. (650) 283)

Immunocytochemistry; Electron microscopy; Monkey; Hippocampus; Subspecies; Presynapse (Saito, N. (656) 245)

Macaca mulatta; Retina; Lateral geniculate nucleus; Visual cortex; Immunocytochemistry; Subspecies (Fukuda, K. (658) 155)

Estrogen; Intracerebral infusion; Lordosis; Midbrain central gray; Phorbol ester; Protein kinase C inhibitor; RU486; Tetradecanoyl phorbol acetate; Hypothalamic ventromedial nucleus (Kow, L.-M. (660) 241)

Traumatic brain injury; Phorbol ester; NMDA receptor; MK-801; Brain (Sun, F.-Y. (661) 63)

Basic fibroblast growth factor; Neurite branching; Neurite elongation; Tyrosine kinase; Cultured hippocampal neuron (Aoyagi, A. (661) 117)

Second messenger; Ontogeny; Development; Rat; Hippocampus; Autoradiography (Lee, E.J. (665) 127)

Chronic κ-agonist treatment; Antinociception; Tolerance; G protein; Low K_m GTPase (Feng, Y. (667) 133)

ADR activity; H7; Calphostin C; Cell proliferation (Miñana, M.D. (667) 161)

Thyrotropin-releasing hormone; Neuromodulation; Resting K^+ conductance; Phorbol ester; IP_3; BAPTA; EGTA; Intracellular calcium; Forskolin; Adenylate cyclase (Bayliss, D.A. (668) 220)

Protein kinase C inhibitor
Estrogen; Intracerebral infusion; Lordosis; Midbrain central gray; Phorbol ester; Protein kinase C; RU486; Tetradecanoyl phorbol acetate; Hypothalamic ventromedial nucleus (Kow, L.-M. (660) 241)

Protein kinase C isoform
Electroshock; Endogenous substrate (Chen, C.-C. (648) 65)

Protein kinase C subspecies
Kindling; Epilepsy; Neuronal plasticity; Hippocampus; Hydroxylapatite column (Ono, M. (660) 27)

Protein phosphatase
Proline-directed protein kinase; Neurofibrillary tangle; Immunocytochemistry; Neuron; Alzheimer's disease (Pei, J.-J. (655) 70)

Protein phosphatase 2A
Tyrosine hydroxylase; Protein kinase A (Berresheim, U. (637) 273)

Protein phosphorylation
Interleukin-1; Interleukin-6; Serotonin; Leech; Learning (Bottai, D. (641) 155)

Quisqualate; Glutamate receptor; Ca^{2+}/calmodulin-dependent protein kinase II; Potassium current; Snail neuron (Onozuka, M. (650) 336)

Glutamate; Glutamate receptor; Ca^{2+}/calmodulin-dependent protein kinase II; Potassium current; Snail neuron (Watanabe, K. (654) 352)

Glial fibrillary acidic protein; GFAP; 2,5-Hexanedione; Hippocampus; Rat (Pereira, M.E. (656) 417)

Calcium/calmodulin-dependent protein kinase II; Alzheimer's disease; Protein kinase; Tau (Simonian, N.A. (657) 294)

Ca^{2+}/calmodulin-dependent protein kinase II; cAMP-dependent protein kinase; Endogenous substrate; Brain development; Two-dimensional gel electrophoresis (Sugiura, H. (659) 42)

Protein release
Axoplasmic transport; 2D electrophoresis; Exocytosis; Vagus nerve; Nerve regeneration (Remgård, P. (663) 326)

Protein synthesis
Growth factor; Inhibition; Proliferation; Sciatic nerve (Edbladh, M. (641) 76)

Excitotoxicity; Granule cell culture; 2D-PAGE; GRP 78 (Dessi, F. (654) 27)

Protein trafficking
Neuropeptide; Proteolytic processing; Exocrine gland; Egg-laying behavior (Paganetti, P. (633) 53)

Protein transport
Nerve; Organelle transport; Transport reversal; Reversal time (Snyder, R.E. (635) 49)

Proteoglycan
Heparan sulfate; Basic fibroblast growth factor; Tyrosine hydroxylase; Immunocytochemistry; Coexistence; Brain (Fuxe, K. (636) 131)

Chondroitin sulfate; Protective action; Cell death; Excitotoxicity; Glutamate; Cell culture; Cortical neuron (Okamoto, M. (637) 57)

Proteolysis
Paired helical filament; Tau protein; Aggregation; SDS solubility; Immunogold electron microscopy (Ksiezak-Reding, H. (649) 185)

Focal cerebral ischemia; Spectrin; Calpain; Rat (Hong, S.-C. (661) 43)

Proteolytic processing
Neuropeptide; Protein trafficking; Exocrine gland; Egg-laying behavior (Paganetti, P. (633) 53)

Proton
NMDA receptor; MK-801 binding; Multiplicity; Kainate binding; Spermidine binding (Yoneda, Y. (636) 298)

Capsaicin; Irritant; Chemosensitivity; Sensitization; Patch clamp; Somatosensory; Neuron (Martenson, M.E. (651) 143)

Proto-oncogene
c-Fos; Medulla; Vagus nerve; Nucleus tractus solitarii; Inferior olivary complex (Yousfi-Malki, M. (635) 317)

Steroid hormone; Estrogen receptor; Hypothalamus; c-*fos* (Tetel, M.J. (646) 267)

Arcuate nucleus; Hypothalamus; Immediate early gene product; Immunocytochemistry; c-Fos (Hoffman, G.E. (654) 207)

Protooncogene
Programmed cell death; Neuron; Glia; Tissue culture; Immunocytochemistry; Immunoblotting (Mizuguchi, M. (649) 197)

Prozac
Fluoxetine; Serotonin; Norepinephrine; Antidepressant (Frankfurt, M. (650) 127)

Pseudorabies virus
Adrenergic fiber; Autonomic nervous system; Catecholamine; Histamine; Medulla oblongata; Pancreas; Parasympathetic nervous system; Raphe nucleus; Serotonin; Vagus nerve; Viral transneuronal labeling (Loewy, A.D. (638) 248)

Psychogenetic selection
$GABA_A$ receptor; TBPS binding; $^{36}Cl^-$ uptake; Roman high- and low-avoidance rats; Dopamine D_1 receptor; Stress (Giorgi, O. (638) 13)

Psychomotor effect
Corticosterone; Cocaine; Metyrapone; Self-administration; Drug abuse (Piazza, P.V. (658) 259)

Psychoneuroimmunomodulation
Brain neuromediator system; Pre- and postsynaptic receptor; Immune response (Devoino, L. (633) 267)

Psychosis
Nigrostriatal neuron; Dopamine; Tyrosine; Tyrosine hydroxylase; Juvenile-onset diabetes; Parkinson's disease; BB Wistar rat (Kono, T. (634) 155)

Psychotropic drug
Immediate-early gene; Dopamine; Serotonin; DARPP-32; Nitric oxide synthase; Hypothalamic-pituitary-adrenal axis (Torres, G. (647) 1)

P-type calcium channel
Synapse; Transmitter release; Agatoxin; Mossy fiber; Perforant fiber; Hippocampus (Yamamoto, C. (634) 349)

Pudendal nerve
Mechanoreceptor; Vagina; Uterine cervix; Mating behavior (Cueva-Rolón, R. (655) 1)

Nociception; Pain; Analgesia; Copulation; Female sexual behavior; Pelvic nerve; Hypogastric nerve; Mount; Intromission; Ejaculation (Gómora, P. (656) 52)

Pulsatile luteinizing hormone release
$GABA_A$ receptor; Bicuculline; Muscimol; Luteinizing hormone releasing hormone pulse generator; Ovariectomized rat (Hiruma, H. (641) 191)

Pulsatility
CRH41; HPA axis; Adrenalectomy (Ixart, G. (658) 185)

Pulse repetition rate
Minimum threshold; Latency; Recovery cycle (Chen, Q.-C. (654) 155)

Purine
Adenosine; Xanthine; 1,3-Dipropyl-8-cyclopentylxanthine; Neuroprotection; Kainic acid; Neurodegeneration (Macgregor, D.G. (644) 339)

Xanthine; Theophylline; Hippocampus; Baclofen; Carbamazepine; Calcium; Adenosine (Hosseinzadeh, H. (657) 300)

Astrocyte; Inositol phosphate; Ca^{2+} mobilization; Pyrimidine (Pearce, B. (660) 329)

Purine release
Metabotropic glutamate receptor; Hippocampal slice; cAMP; Forskolin (Casabona, G. (645) 13)

Purkinje cell
Cerebellum; Muscarinic receptor; GABA; Neuromodulation (Andre, P. (637) 1)

Synapse elimination; Maps formation; Cerebellum; Climbing fiber; X-irradiation; Vibrissa (Fuhrman, Y. (638) 277)

Cerebellar development; Organotypic culture; Granule cell migration; Parallel fiber; Synapse formation; Spatiotemporal pattern (Tanaka, M. (641) 319)

Neurotrophin-3; Brain; Immunohistochemistry; Motoneuron; Rat; Neurotrophic factor (Zhou, X.-F. (643) 162)

Amyloid β-protein precursor; Aging (Nakamura, Y. (643) 319)

Ganglioside; Cerebellum; Mutant mouse; Glycolipid; Electron microscopy; Monoclonal antibody (Yamamoto, M. (662) 223)

Immunocytochemistry; Pyramidal cell; Projection neuron (Hoggatt, A.M. (665) 181)

Mammalian central neuron; Intracellular recording; Synaptic integration; White noise; Neocortex; Hippocampus; Thalamus; Brain slice; Slice culture (Jahnsen, H. (666) 9)

Purkinje neuron
Alcohol; Development; Calcium current; Fetal alcohol syndrome; Central nervous system; Neuron (Gruol, D.L. (634) 283)

Push–pull perfusion
Luteinizing hormone; κ Opioid receptor; Norepinephrine; Dopamine; Medial basal hypothalamus; Pregnancy (Zhen, S. (642) 178)

Arginine vasopressin; Blood pressure; Antipyresis; Ventral septal area (Earle, M.L. (658) 15)

Gastrin-releasing peptide; Satiety; Hypothalamus; Feeding; Central nervous system (Plamondon, H. (668) 54)

Putamen
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Human brain; Dopamine; Monoamine; Caudate nucleus; Ventral striatum; Striosome; Matrix (Lehéricy, S. (659) 1)

Putrescine
Polyamine; Lithium; Ornithine decarboxylase; Spermidine; Spermine; Dexamethasone; Brain; Rat (Gilad, G.M. (636) 187)

PVN
2-Deoxyglucose; Hyperglycemia; Microwave irradiation; Microdissection; VMH; LH; Acetylcholine; Norepinephrine (Takahashi, A. (665) 13)

Pyramidal cell
Female rat; Ovariectomy; Parietal cortex; Dendritic branching; Neonatal exposure to testosterone (Stewart, J. (654) 149)

Immunocytochemistry; Purkinje cell; Projection neuron (Hoggatt, A.M. (665) 181)

Pyramidal neuron
Chronic morphine; Morphine withdrawal; β-Adrenoceptor; Ca^{2+}-activated potassium afterhyperpolarization; Hippocampal slice (Ackerman, J.M. (656) 309)

Pyramidal neuron of different species
Advanced glycosylation end product; Hippocampus (Li, J.J. (641) 285)

Pyramidal tract
Neostriatum; Basal ganglia; Motor cortex; Caudate; Putamen (Ryan, L.J. (651) 241)

Pyrethroid
Neurotoxicity; Neonatal; Muscarinic acetylcholine receptor; Behavior; Insecticide; Bioallethrin (Ahlbom, J. (645) 318)

2-Pyridylethylamine
Extravasation; Blood–brain barrier; Histamine; Impromidine; Intravital fluorescence microscopy (Schilling, L. (653) 289)

Pyriform cortex
Kindling; Thyrotropin-releasing hormone; Carbamazepine; Tolerance; Hippocampus; Entorhinal cortex; Perirhinal cortex; mRNA; In situ hybridization (Rosen, J.B. (651) 252)

Pyrimidine
Astrocyte; Inositol phosphate; Ca^{2+} mobilization; Purine (Pearce, B. (660) 329)

Pyrogen contamination
Fever; *Candida albicans*; Thermoregulation; Anterior hypothalamus; Fungus; Preoptic area; Temperature; Microinjection; Brain; Rat; Intracerebral injection; Hyperthermia (Barwick, V.S. (635) 1)

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Quail
Photoperiod; Preoptic area; Sexual behavior; Testosterone (Thompson, R.R. (667) 201)

Quantal analysis
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Quantal release
Neuromuscular transmission; Endplate potential; Acetylcholine; Adrenocorticotropin (Davies, D.A. (637) 328)

Quantitative analysis
Basal forebrain; Choline acetyltransferase; Parvalbumin; Septo-hippocampal system; Inbred mouse; Double labeling (Linke, R. (653) 73)

Vasotocin; Preoptic region; Lateral septum; *Coturnix japonica*; Avian brain; Immunocytochemistry (Viglietti-Panzica, C. (657) 171)

Quantitative autoradiography
Estradiol; Dopamine receptor; Sex difference; Striatum; Progesterone (Bazzett, T.J. (637) 163)

Serotonin 5-HT_{1B} receptor; 5,7-Dihydroxytryptamine; Parachlorophenylalanine; L-5-Hydroxytryptophan; Upregulation; Time course; Suprachiasmatic nucleus; Rat (Manrique, C. (663) 93)

Dopamine transporter; WIN 35428; GBR 12935; Drug seeking behavior (Wilson, J.M. (668) 39)

Quantitative evaluation
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Quantitative histochemistry
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Quantitative immunocytochemistry
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Quantitative immunogold electron microscopy
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Quantum
Neuromuscular; Anandamide; Cannabinoid; cAMP; Synapse (Van der Kloot, W. (649) 181)

Quinolinic acid
Spinal cord injury; Inflammation; Macrophage; Microglia; Blood–brain barrier (Popovich, P.G. (633) 348)

Nucleus accumbens; Sensorimotor gating; Startle; Striatum (Kodsi, M.H. (643) 59)

Autoradiography; 6-Hydroxydopamine; Striatum; Substantia nigra; Tachykinin (Stoessl, A.J. (646) 13)

NMDA; Excitotoxicity; Basal ganglia; Astrocyte (Roberts, R.C. (650) 229)

Picolinic acid; NADPH-diaphorase; Striatum; Osmotic minipump (Kalisch, B.E. (668) 1)

Striatopallidal; Globus pallidus; Ventral pallidum; Hyperkinesia; Lesion mapping (Cromwell, H.C. (668) 16)

Quinpirole
Substantia nigra pars reticulata; Dopamine; Rodent; Dopamine D_1 receptor; Dopamine D_2 receptor; Apomorphine; Striatonigral pathway (Yurek, D.M. (639) 329)

Dopamine receptor; 7-Hydroxy-DPAT; G protein; Raclopride; Remoxipride; *N*-Propylnorapomorphine; Magnesium (Liu, Y. (643) 343)

Dopamine release; 7-Hydroxy-DPAT; Striatum; Nucleus accumbens (Yamada, S. (648) 176)

A-77636; Amphetamine; Brain stimulation reward; Caudate-putamen; Cortex; Dopamine D_1 agonist; Dopamine D_2 agonist; Dopamine receptor; Nucleus accumbens; Rat; Reinforcement (Ranaldi, R. (651) 283)

Quinuclidinylbenzilate
Receptor binding; Homogenate; Hippocampus; Brainstem; Neocortex; Fluid percussion; Traumatic brain injury (Jiang, J.Y. (651) 123)

Quisqualate
Glutamate; Hippocampus; Sensitization; CA1 pyramidal neuron; AP4; AP6; Excitatory amino acid; Excitatory amino acid (Schulte, M.K. (649) 203)

Glutamate receptor; Protein phosphorylation; Ca^{2+}/calmodulin-dependent protein kinase II; Potassium current; Snail neuron (Onozuka, M. (650) 336)

Metabotropic receptor; DCG-IV; Hippocampal slice; Phorbol ester (Genazzani, A.A. (659) 10)

Glutamate; Hippocampus; Sensitization; Excitatory amino acid (Price Jr., R.H. (663) 317)

Quisqualic acid
NMDA; Colorectal distention; Hyperalgesia; Rat (Kolhekar, R. (651) 215)

QX-314
Inward rectifier; K^+ channel; Locus ceruleus; Noradrenergic; Opiate receptor (Alreja, M. (639) 320)

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Rabbit
Thirst; Cellular dehydration; Angiotensin II; Losartan; Brain sodium concentration; Cattle; Sheep; Rat; Mouse (Blair-West, J.R. (637) 335)

Defense reaction; Vigilance reaction; Baroreceptor reflex; Hypothalamus; Medulla (Duan, Y.-F. (643) 218)

Cerebellum; Discrimination; Reversal conditioning; Eyelid conditioning; Multiple-unit recording (Gould, T.J. (652) 98)

Raclopride
Dopamine receptor; 7-Hydroxy-DPAT; G protein; Remoxipride; *N*-Propylnorapomorphine; Quinpirole; Magnesium (Liu, Y. (643) 343)

Radial arm maze
Spatial memory; Hippocampus; Stress; Tianeptine; Phenytoin (Luine, V. (639) 167)

Bombesin; Nucleus tractus solitari; Memory; Epinephrine; Avoidance learning (Williams, C.L. (654) 251)

Adrenalectomy; Spatial memory; Dentate gyrus; Corticosterone; Adrenal steroid (Vaher, P.R. (656) 71)

Radial maze
Amphetamine; Medial septum; Learning; Memory; Sensitization; Drug–lesion interaction (Ennaceur, A. (636) 277)

Learning; Memory; Permanent occlusion of bilateral common carotid arteries; Rat (Ni, J.-w. (653) 231)

Aging; Stress; Hippocampus; Memory; Learning; Water maze; Morphometry (Arbel, I. (657) 227)

Radioactive microsphere
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Radioenzymatic assay
Radioimmunoassay; Wobbler mouse motoneuron disease; Cervical spinal cord; Acetylcholinesterase; Choline acetyltransferase; Thyrotropin-releasing hormone; Substance P; Methionine-enkephalin; Leucine-enkephalin (Yung, K.K.L. (638) 337)

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Radioenzymatic assay; Wobbler mouse motoneuron disease; Cervical spinal cord; Acetylcholinesterase; Choline acetyltransferase; Thyrotropin-releasing hormone; Substance P; Methionine-enkephalin; Leucine-enkephalin (Yung, K.K.L. (638) 337)

Corticotropin-releasing factor; Neuroblastoma; HPLC; Forskolin; BE (2)-M17 (Parkes, J.W.K.D.G. (654) 159)

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Rana pipiens
Concanavalin A; Tectum; Habituation; Glutamate; Nucleus isthmus (Scherer, W.J. (667) 209)

Raphe
NMDA; Glutamate; Serotonin; (+)-MK 801 (Lejeune, F. (656) 427)

Raphe nucleus
Adrenergic fiber; Autonomic nervous system; Catecholamine; Histamine; Medulla oblongata; Pancreas; Parasympathetic nervous system; Pseudorabies virus; Serotonin; Vagus nerve; Viral transneuronal labeling (Loewy, A.D. (638) 248)

Fenfluramine; Penile erection; Cholinergic; Serotonergic; Dopaminergic; Hippocampus; Medial septum; Fimbria-fornix (Maeda, N. (652) 181)

Transferrin; Transthyretin; 5-Hydroxytryptamine; Choroid plexus; Meninges; Sympathetic nerve; Cerebrospinal fluid (Blay, P. (662) 148)

Raphe pallidus
Thyrotropin releasing hormone; Dorsal vagal complex; Gastric motility; Glutamate; Rat (Garrick, T. (636) 343)

Rat
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Nerve growth factor; Neuropathy; Treatment (Apfel, S.C. (634) 7)

NMDA; Kainate; Excitatory amino acid; Stress; Glucose production; Glucose utilization; Catecholamine; Epinephrine; Glucagon; Insulin; Corticosterone (Molina, P.E. (634) 41)

α-Tocopherol; Lipofuscin; Free radical; Aging; Brain (Monji, A. (634) 62)

N-Methyl-D-aspartate; Kainate; Excitatory amino acid; Glucose production; Glucose utilization; Catecholamine; Glucagon; Corticosterone; Insulin (Yousef, K.A. (634) 131)

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Cerebral ischemia; Ischemic tolerance; Heat shock protein; HSP27; HSP70; αB crystallin; Immunohistochemistry; Enzyme immunoassay (Kato, H. (634) 235)

Ca^{2+}/calmodulin-dependent protein kinase II; Retina; Amacrine cell; Ganglion cell; Choline acetyltransferase (Ochiishi, T. (634) 257)

Neuropeptide Y; Climbing fiber; Inferior olive; Flocculus; Immunohistochemistry; In situ hybridization (Ueyama, T. (634) 353)

Fever; *Candida albicans*; Thermoregulation; Anterior hypothalamus; Fungus; Preoptic area; Temperature; Microinjection; Pyrogen contamination; Brain; Intracerebral injection; Hyperthermia (Barwick, V.S. (635) 1)

Striate cortex; Current source density; Electrophysiology; Slice (Kenan-Vaknin, G. (635) 37)

Fluoxetine; Deiodinase; Thyroid hormone metabolism; Brain (Baumgartner, A. (635) 68)

Brain; Melanocortin; Neuropeptide receptor; α-Melanocyte-stimulating hormone; Adrenocorticotropic hormone; Lacrimal gland; Melanoma (Tatro, J.B. (635) 148)

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Triple immunofluorescence labeling; Dual-peroxidase staining; Glia; Extracellular matrix; *Wisteria floribunda* agglutinin; Chondroitin sulfate proteoglycan; Cortex (Härtig, W. (635) 307)

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Choline acetyltransferase; Acetylcholine; Brainstem; Paragigantocellular nucleus; Medulla (Sherriff, F.E. (636) 119)

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Raphe pallidus; Thyrotropin releasing hormone; Dorsal vagal complex; Gastric motility; Glutamate (Garrick, T. (636) 343)

Corticotropin-like intermediate lobe peptide; Vasoactive intestinal polypeptide; Delta sleep inducing peptide; Nucleus raphe dorsalis; Serotonin; Slow wave sleep; Paradoxical sleep; Hypnogenic factor (El Kafi, B. (637) 211)

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Cortico-nigral projection; Anterograde tracing; Biotinylated dextran amine; Prefrontal cortex; Substantia nigra; Light microscopy (Naito, A. (637) 317)

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Sleep; Circulation; Brain blood flow; Radioactive microsphere (Zoccoli, G. (641) 46)

Alzheimer's disease; Arecoline; Cerebral blood flow; Cerebral glucose metabolism; Hippocampus; Muscarinic receptor (Maiese, K. (641) 65)

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Stimulation-induced feeding; Ventral tegmental area; Lesion; Facilitation; Contralateral effect (Trojniar, W. (641) 333)

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Septo-hippocampal system; Development; Muscarinic cholinergic receptor; Cholineacetyltransferase; Lead; Perinatal exposure (Bielarczyk, H. (643) 211)

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Cerebral ischemia; Focal ischemia; Immunohistochemistry; Striatum; Cortex; Superoxide dismutase (Liu, X.-H. (644) 257)

Dopamine; Acetylcholine; Prefrontal cortex; Delayed-matching-to-position; Short-term memory (Broersen, L.M. (645) 113)

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Hippocampus; Dissociated pyramidal neuron; Nystatin perforated patch; Sevoflurane; Chloride current (Wu, J. (645) 303)

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Uptake; Dopamine; Serotonin; Transporter; Fetal; Monoamine; Development (Hyde, C.E. (646) 118)

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Fos; Trigeminal spinal caudal subnucleus; Parabrachial nucleus; Fluoro-Gold; Immunocytochemistry; Double labeling; Formalin (Wang, L.G. (649) 62)

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β-Amyloid protein precursor; β-Amyloid peptide; Global cerebral ischemia; Cardiac arrest; Clinical death; Stroke; Alzheimer's disease (Pluta, R. (649) 323)

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Cholecystokinin; Immunohistochemistry; WGA-HRP; Hypothalamus; Neurohypophysis (Liu, S. (651) 7)

Axotomy; Platelet-derived growth factor; Platelet-derived growth factor receptor; Vagus nerve; Degeneration (Yamada, E. (651) 108)

NMDA; Quisqualic acid; Colorectal distention; Hyperalgesia (Kolhekar, R. (651) 215)

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A-77636; Amphetamine; Brain stimulation reward; Caudate-putamen; Cortex; Dopamine D_1 agonist; Dopamine D_2 agonist; Dopamine receptor; Nucleus accumbens; Quinpirole; Reinforcement (Ranaldi, R. (651) 283)

Circadian rhythm; cAMP; Suprachiasmatic nucleus; Enzyme immunoassay (Yamazaki, S. (651) 329)

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α-Sialyl cholesterol; Schwann cell; Laminin; Vincristine; Taxol; Cisplatin; K-562 cell (Konings, P.N.M. (654) 118)

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Rat basal forebrain
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Rat striatum
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Rat tail-flick test
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Brain neuron; 2′,7′-Dichlorofluorescin diacetate; *Ginkgo biloba*; Flavonoid; Oxidative metabolism (Oyama, Y. (635) 125)

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Food deprivation; Water deprivation; Hypothalamic–pituitary–adrenal axis; Paraventricular nucleus; Corticotropin-releasing hormone; Vasopressin (Kiss, A. (663) 84)

Prolactin; Rat hypothalamus; Ovine prolactin; Domperidone; Bromocriptine; Pituitary implantation (Muccioli, G. (663) 244)

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α_2-Receptor
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β-Receptor
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δ Receptor
μ Receptor; Analgesia; Synergy; Nociception; Pain (Rossi, G.C. (665) 85)

μ Receptor
δ Receptor; Analgesia; Synergy; Nociception; Pain (Rossi, G.C. (665) 85)

Receptor autoradiography
Histamine H_3 receptor; Unilateral enucleation; Neuronal plasticity; Visual system; Superior colliculus (Nakagawa, Y. (643) 74)

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Nucleus tractus solitarii; NPY(1–36); Neuropeptide Y_1 receptor agonist; Neuropeptide Y_2 receptor agonist; Adrenaline; Clonidine; Cardiovascular control (Yang, S.-N. (654) 137)

Receptor binding
Vasopressin V_1 receptor; Adrenalectomy; Hippocampus; Mineralocorticoid receptor (type I); Glucocorticoid receptor (type II) (Saito, R. (646) 170)

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Fluid percussion; AFDX384; Acetylcholine; Pirenzipine; Autoradiography; Hippocampus; Traumatic brain injury (DeAngelis, M.M. (653) 39)

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Receptor cell
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Receptor downregulation
Human neuroblastoma; NMB cell line; Opioid; Opioid receptor; cAMP; Receptor upregulation (Baumhaker, Y. (665) 94)

Receptor interaction
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Receptor–receptor interactions
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Receptor upregulation
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Recombinant tissue plasminogen activator
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Polyclonal antibody; Paraventricular nucleus; Insulin; Rat (Lambert, P.D. (656) 135)

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Anteromedial cortex lesion; Phenobarbital; Somatosensory asymmetry; Anti-convulsants (Hernandez, T.D. (635) 300)

Cortex; Development; Frontal cortex; Prefrontal cortex; Parietal cortex; Dendrite (Kolb, B. (645) 85)

Cortex; Neonatal lesion; Cortical graft; Neural transplantation; Frontal lesion (Kolb, B. (647) 15)

Brain injury; Head trauma; Plasticity; Catecholamine (Dunn-Meynell, A. (660) 88)

Recruitment
Motor control; Electromyography; Biarticular muscle; Waveform; Coordination of motor pools (De Leon, R. (654) 241)

Recurrent inhibition
Theta rhythm; Cytokine; Interneuron; Septohippocampal; Acetylcholine (Steffensen, S.C. (652) 149)

Redox
Brain; Immaturity; Mitochondrion; Rat (Vannucci, R.C. (653) 141)

5-α-Reductase
Progesterone; Neuronal cell; Glial cell; Rat; Culture (Melcangi, R.C. (639) 202)

Reduction of circadian amplitude
Hypothalamic neuronal histamine; Feeding circadian rhythm; Light–dark cycle; Histamine H_1 receptor; α-Fluoromethylhistidine; Thioperamide (Doi, T. (641) 311)

Reeler mutant mouse
Hippocampal slice; Calcium-binding protein; Parvalbumin; F3/F11 protein; Immunohistochemistry (Ishida, A. (662) 60)

Neurological mutant mouse; Migration; Motor trigeminal nucleus; Neural crest; Trigeminal ganglion (Terashima, T. (666) 31)

Reference memory
Nitric oxide; L-NAME; Hippocampus; Cerebral ischemia; Working memory; Rat (Ohno, M. (634) 173)

Baclofen; Double Y-maze; GABA; Memory; Muscimol; Nucleus basalis magnocellularis; Phaclofen; Working memory (DeSousa, N.J. (641) 29)

Muscarinic M_1 receptor; Muscarinic M_2 receptor; Pirenzepine; AF102B; Methoctramine; Hippocampus; Working memory (Ohno, M. (650) 260)

FG 7142; Double Y-maze; γ-Aminobutyric acid; Memory; Muscimol; Nucleus basalis magnocellularis; Working memory (Smith, C.G. (666) 61)

Reflex modification
Blink reflex; Brainstem; Conditioned response; Prepulse inhibition; Sensory gating (Valls-Solé, J. (650) 313)

Regeneration
Dorsal root axon; Glial environment; X-irradiation; Spinal cord (Sims, T.J. (634) 113)

β-Tubulin; Neurofilament gene expression; Dorsal root ganglion; Axotomy (Jiang, Y.Q. (637) 233)

Cytochrome oxidase; Axotomy; Motoneuron (Iannuzzelli, P.G. (637) 267)

Photoreceptor; Human retina; Retina grafting (Hicks, D. (643) 302)

Olfaction; Sensory; Bulbectomy; Olfactory marker protein; Reinnervation; Cerebral cortex (Hendricks, K.R. (648) 121)

Olfaction; Sensory; Olfactory marker protein; Reinnervation; Cerebral cortex; Olfactory nerve; Transplantation (Hendricks, K.R. (648) 135)

Nitric oxide; Supraoptic nucleus; Paraventricular nucleus; Injury (Villar, M.J. (650) 219)

Nerve transection; Ciliary neurotrophic factor; Axonal elongation; Growth cone formation (Sahenk, Z. (655) 246)

Endoneurial capillary; Sciatic nerve; Nerve transection; Angiogenesis; Rat (Podhajsky, R.J. (662) 88)

Retinal ganglion cell; Target; Neurotrophic factor; Retinal glia; In vitro (Raju, T.R. (664) 247)

Regional cerebral blood flow
Cholinergic system; Cerebral stimulation; Scopolamine; Positron emission tomography; Regional cerebral glucose metabolism (Ogawa, M. (650) 249)

Positron emission tomography; Taste stimulation; Insular cortex; Cingulate cortex (Kinomura, S. (659) 263)

Positron emission tomography; Somatosensory discrimination; Correlation analysis; Neuronal network (Kawashima, R. (663) 251)

Regional cerebral glucose metabolism
Cholinergic system; Cerebral stimulation; Scopolamine; Positron emission tomography; Regional cerebral blood flow (Ogawa, M. (650) 249)

Regional cortical blood flow
Basic fibroblast growth factor; Brain pH_i (Regli, L. (665) 155)

Regional differentiation of astrocytes
D-Amino acid oxidase; Localization; Astrocyte; Glia; Rat brain; Central nervous system (Horiike, K. (652) 297)

Regional distribution
Dopamine D_3 receptor; Dopamine; 7-Hydroxy-DPAT; Autoradiography; Human brain (Herroelen, L. (648) 222)

Regional-specific morphology
Aromatase; Hypothalamus; Cortex; Cell culture; Immunocytochemistry; Sex difference; BALB/c mouse (Beyer, C. (638) 203)

Regulation
Chronic hypoxia; Immature brain; Receptor; Saxitoxin; Sodium channel (Xia, Y. (635) 339)

Regulatory protein
Brain; Hippocampus; Transcription factor; c-*fos*; c-*jun*; Seizure; Metrazole; CREB; Sensory cortex; Limbic cortex; Cerebellum; Gel-shift; EMSA; Supershift (Łukasiuk, K. (643) 227)

Regulatory volume decrease
D-Aspartate; Rubidium; -SH group; Astrocyte; Hypotonicity (Aschner, M. (648) 16)

Rehydration
Salt-loading; Vasopressin; Galanin; Dynorphin; Immunocytochemistry (Yagita, K. (667) 13)

Reinforcement
Amphetamine; Conditioned place preference; Locomotion; Mesencephalic locomotor region; Morphine; Pedunculopontine tegmental nucleus; Rat (Olmstead, M.C. (638) 29)

Amphetamine; Dopamine; Intracranial self-stimulation; Reward; Nucleus accumbens; Caudate-putamen; Curve shift (Ranaldi, R. (642) 251)

Amygdala; Cocaine; Dopamine; 6-Hydroxydopamine; Progressive ratio; Self-administration (McGregor, A. (646) 273)

Mesolimbic; Norepinephrine; Drug abuse; Mesencephalon (Van Bockstaele, E.J. (647) 307)

A-77636; Amphetamine; Brain stimulation reward; Caudate-putamen; Cortex; Dopamine D_1 agonist; Dopamine D_2 agonist; Dopamine receptor; Nucleus accumbens; Quinpirole; Rat (Ranaldi, R. (651) 283)

Mesolimbic dopamine system; Feeding behavior; Voltammetry; Motivation (Kiyatkin, E.A. (652) 225)

Nicotine; Mesolimbic dopamine; Pedunculopontine tegmental nucleus; Cholinergic; Dihydro-β-erythroidine; Cocaine (Corrigall, W.A. (653) 278)

Reinnervation
Olfaction; Sensory; Bulbectomy; Olfactory marker protein; Regeneration; Cerebral cortex (Hendricks, K.R. (648) 121)

Olfaction; Sensory; Olfactory marker protein; Regeneration; Cerebral cortex; Olfactory nerve; Transplantation (Hendricks, K.R. (648) 135)

Release
Acetylcholine; Glycine; Nucleus tractus solitarii (Talman, W.T. (650) 253)

REM
Prolactin; Sleep; Vasoactive intestinal polypeptide (Obál Jr., F. (645) 143)

Remoxipride
σ Opioid receptor; NCB20 cell; Haloperidol; Naloxone; Antipsychotic; K channel (Morio, Y. (637) 190)

Dopamine receptor; 7-Hydroxy-DPAT; G protein; Raclopride; *N*-Propylnorapomorphine; Quinpirole; Magnesium (Liu, Y. (643) 343)

REM sleep
Idazoxan; Brainstem; Carbachol; Norepinephrine (Bier, M.J. (634) 333)

Acetylcholine; Thermoregulation; Sleep (Szymusiak, R. (636) 115)

Control of breathing; Hypoglossal motoneuron; Microdialysis; Pons; Serotonin; Sleep apnea syndrome; Upper airway (Kubin, L. (645) 291)

Serotonin; Cholinergic; Synapse; Tegmentum; PGO spike; Immunohistochemistry; Electron microscopy (Honda, T. (647) 299)

Serotonin; Dorsal raphe nucleus; Brainstem; Microdialysis (Portas, C.M. (648) 306)

Flow-metabolic coupling; Hemoglobin oxygenation state; Sleep–wake cycle; Cerebral blood flow; Cerebral oxygen metabolic rate (Hoshi, Y. (652) 257)

REM sleep deprivation
Cholinoceptor; Receptor regulation; Acetylcholine (Tsai, L.-L. (642) 95)

Renin
Noradrenergic; Fenfluramine; 6-Hydroxydopamine; Yohimbine; Lesion (Van de Kar, L.D. (634) 77)

Renin angiotensin
Plasticity; Cerebellum; Angiotensinogen mRNA; Bergmann glial cell (Lippoldt, A. (668) 144)

Renin–angiotensin system
Isoproterenol; Drinking; Hypotension; β-Adrenoceptor (Kirby, R.F. (656) 79)

Repeated amphetamine
Rotation; Sensitization; Striatum; DA; DA transporter; DA uptake (Mintz, M. (668) 239)

Repeated ischemia
Cerebral ischemia; Magnetic resonance spectroscopy; Glucose; Piglet (Laptook, A.R. (638) 78)

Reperfusion
Astrocyte; Cerebral cortical neuron; Glutamate; Hypoxia; Ischemia; Lactate dehydrogenase (Sochocka, E. (638) 21)

Brain ischemia; Cerebral blood flow; Diethyldithiocarbamate; Electron paramagnetic resonance; Nitric oxide (Sato, S. (647) 91)

Hyperalgesia; Ischemia; Diazepam; Convergent neuron; Benzodiazepine; Hyperexcitability (Cartmell, S.M. (659) 82)

Repetitive ischemia
Ischemia; GABA; Microdialysis; Substantia nigra reticulata; Delayed neuronal damage (Shuaib, A. (666) 99)

Repolarization
Action potential; Calcium-dependent potassium current; Chromaffin; Neuroendocrine; Whole-cell voltage-clamp (Pancrazio, J.J. (668) 246)

Reproduction
Sexual behavior; Preoptic area; Japanese quail; *Coturnix japonica*; Aromatase synthesis (Foidart, A. (657) 105)

Solitary nucleus; Uterus; Cervix; Vagina; Colon; Viscera (Hubscher, C.H. (664) 1)

Reproductive status
Sex difference; Spatial learning; Water maze; Deer mouse; Sex hormone; Seasonal difference; Breeding and non-breeding (Galea, L.A.M. (635) 18)

Reptile
Anterior hypothalamus; Brain lesion; Medial preoptic area; Sexual behavior (Kingston, P.A. (643) 349)

Visual system; Retinopetal projection; Isthmo-optic projection; Fish; Amphibian (Malz, C.R. (661) 259)

2-Deoxyglucose; Anterior hypothalamus; Medial preoptic area; Ventromedial hypothalamus (Rand, M.S. (663) 163)

Reptilia
Vitamin D receptor; Steroid hormone; Central nervous system; Choroid plexus; Turtle; Autoradiography (Bidmon, H.-J. (640) 277)

Reserpine
Alzheimer's disease; Protein kinase C; Rat brain; Western blot (Komachi, H. (634) 127)

MK-801; *p*-CPA; L-DOPA; Catecholamine; Serotonin; Apomorphine; Bladder reflex (Yoshiyama, M. (639) 300)

HPA axis; Morphine; Hypothalamus; Catecholamine; Adrenergic blocking drug (Martinez-Piñero, M.G. (668) 122)

Residual body
Gomori glia; Peroxidase; Autophagosome; Iron; Transformed mitochondrion (Brawer, J.R. (633) 9)

Resiniferatoxin autoradiography
Vanilloid receptor; Cooperative binding; Capsaicin; Capsazepine (Szallasi, A. (655) 237)

Respiration
Caudal nucleus retroambigualis; Expiratory neuron; Axon collateral; Spinal cord; Brainstem (Sasaki, S.-I. (648) 229)

Autoradiography; Development; Receptor; Sheep; Fetus; Newborn; Adult; Birth (Tai, T.-C. (652) 28)

Carotid body; Chemoreceptor; Muscimol; Phrenic nerve (Chitravanshi, V.C. (662) 127)

Caudal hypothalamus; Cobalt chloride; Excitatory amino acid; Kynurenic acid; Rat (Horn, E.M. (664) 25)

Kainate; Microinjection; Nucleus parabrachialis; Respiratory depression; After suppression; Naloxone (Hirano, T. (665) 54)

Respiratory complex
Oxidative phosphorylation; Mitochondrion; Brain; Aging (Ferrándiz, M.L. (644) 335)

Respiratory control
Rostral ventrolateral medulla; Tyrosine hydroxylase; Biocytin; Intracellular electrophysiology; Cardiovascular control (Pilowsky, P. (633) 63)

Respiratory neuron; Ventral respiratory group; Phrenic motoneuron; Neurobiotin; Crossed-phrenic phenomenon (Lipski, J. (640) 171)

Respiratory depression
Kainate; Microinjection; Nucleus parabrachialis; Respiration; After suppression; Naloxone (Hirano, T. (665) 54)

Respiratory inhibition
5-Methoxy-*N*,*N*-dimethyltryptamine (5 MeODMT); Serotonin receptor; Respiratory neuron; Tachypneic discharge (Lalley, P.M. (648) 87)

Respiratory neuron
Medulla oblongata; Nucleus tractus solitarii; Extracellular recording; Antidromic stimulation; DL-Homocysteic acid; Vagal afferent (De Castro, D. (639) 49)

Ventral respiratory group; Phrenic motoneuron; Respiratory control; Neurobiotin; Crossed-phrenic phenomenon (Lipski, J. (640) 171)

5-Methoxy-*N*,*N*-dimethyltryptamine (5 MeODMT); Serotonin receptor; Tachypneic discharge; Respiratory inhibition (Lalley, P.M. (648) 87)

Respiratory timing
Phrenic nerve; Parabrachial complex; Decerebration; Inspiratory duration; Pons (Morrison, S.F. (652) 83)

Response averaging
Neuronal discharge pattern; Discharge frequency (Johnson, J.L. (666) 125)

Resting K^+ conductance
Thyrotropin-releasing hormone; Neuromodulation; Phorbol ester; Protein kinase C; IP_3; BAPTA; EGTA; Intracellular calcium; Forskolin; Adenylate cyclase (Bayliss, D.A. (668) 220)

Resting potential
Guinea pig; Cochlea; Outer hair cell; Patch-clamp; Potassium channel (Nakagawa, T. (661) 293)

Retention
Amygdala; Central nucleus; Basolateral complex; Lidocaine; Inhibitory avoidance; Learning; Memory (Parent, M.B. (661) 97)

Amnesia; Amyloid β-protein; Memory processing; Mouse; Peptide; K^+ channel (Flood, J.F. (663) 271)

Reticular formation
Excitatory amino acid; Brainstem; Trigeminal premotoneuron; Mastication (Turman Jr., J.E. (634) 49)

Audiogenic seizure; GABA; Inferior colliculus; Seizure network; GABA uptake (Faingold, C.L. (640) 40)

Superior colliculus; Substantia nigra; *Phaseolus vulgaris* leucoagglutinin; Wheat germ agglutinin-horseradish peroxidase; Rat (Yasui, Y. (656) 420)

Ethanol; Audiogenic seizure; Seizure network; Startle; Habituation (Faingold, C.L. (663) 69)

Reticulospinal projection
Lamprey; Motor control (Wannier, T. (666) 275)

Reticulospinal sympathoexcitatory neuron
Cyanide; Hypoxia; Protein kinase C; Arachidonic acid; Inward current; Rostral ventrolateral medulla (Sun, M.-K. (636) 245)

Retina
Calcium current; Ganglion cell; Development; ω-CgTx; Nifedipine (Guenther, E. (633) 223)

Ca^{2+}/calmodulin-dependent protein kinase II; Amacrine cell; Ganglion cell; Choline acetyltransferase; Rat (Ochiishi, T. (634) 257)

Glutamate receptor channel; NMDA receptor channel; ϵ Subunit; ζ Subunit; In situ hybridization; Mouse; Development (Watanabe, M. (634) 328)

Dorsal raphe nucleus; Periaqueductal gray; Serotonin; Sleep; Wakefulness; Circadian rhythm; Tract tracing (Shen, H. (635) 159)

Locust; Fly; Neuropeptide; Neurotensin; Insect visual system; Medulla (Ammermüller, J. (636) 40)

Protein kinase C; Calcium-independent (Osborne, N.N. (637) 156)

Enkephalin; Dopamine; Chicken; Amacrine; Light adaptation (Boelen, M.K. (645) 240)

Aging; Fischer 344 rat; Neural degeneration; Photoreceptor; Peripheral degeneration (DiLoreto Jr., D. (647) 181)

Dopamine; Mouse; Retinal dystrophy; Light/dark (Nir, I. (649) 85)

Dopamine release; ON channel; 2-Amino-4-phosphonobutyric acid; ACPD; GABA; Picrotoxin; Excitatory amino acid; Glutamate receptor (Boatright, J.H. (649) 339)

Ca^{2+}/calmodulin-dependent protein kinase II; Ganglion cell; Retrograde-labeling (Terashima, T. (650) 133)

Immunocytochemistry; Postmortem; GABA; Glycine; Glutamate; Taurine; Glia (Pow, D.V. (653) 199)

Macaca mulatta; Protein kinase C; Lateral geniculate nucleus; Visual cortex; Immunocytochemistry; Subspecies (Fukuda, K. (658) 155)

Horizontal cell; Dark adaptation; Rod; Electrical coupling; Cone; Light adaptation (Mangel, S.C. (659) 55)

GABA; $GABA_B$ receptor; Baclofen; CGP 35348; Amacrine cell; Ganglion cell (Tian, N. (660) 267)

Ca^{2+} wave; Glial channel; Voltage-sensitive channel; Spreading depression; Intrinisic optical signal (Fernandes de Lima, V.M. (663) 77)

N-Methyl-D-aspartate; Kainate; Domoic acid; Homocysteic acid; Flupirtine; GABA immunoreactivity (Osborne, N.N. (667) 291)

Retina cell
Oxidative stress; GABA release; Potassium depolarization; Excitatory amino acid; Glutamate antagonist (Agostinho, P. (655) 213)

Retina grafting
Photoreceptor; Regeneration; Human retina (Hicks, D. (643) 302)

Retinal cell
γ-Aminobutyric acid release; Glutamate receptor; NNC-711; MK-801; CNQX (Ferreira, I.L. (664) 252)

Retinal dystrophy
Dopamine; Retina; Mouse; Light/dark (Nir, I. (649) 85)

Retinal fiber
Neurofilament; Immunohistochemistry; Wallerian degeneration; Optic tract (Meller, D. (648) 162)

Retinal ganglion cell
Circadian rhythm; Entrainment; Suprachiasmatic nucleus; Intergeniculate leaflet (Moore, R.Y. (659) 249)

Regeneration; Target; Neurotrophic factor; Retinal glia; In vitro (Raju, T.R. (664) 247)

Frog optic tectum; In vivo whole-cell recording; Nystatin; Retinotectal connection; Synapse (Nakagawa, H. (665) 319)

Retinal glia
Retinal ganglion cell; Regeneration; Target; Neurotrophic factor; In vitro (Raju, T.R. (664) 247)

Retinogeniculate pathway
Pattern formation; Activity; NMDA receptor; Ferret (Smetters, D.K. (658) 168)

Retinohypothalamic tract
Circadian rhythm; Glutamate; Electrical stimulation; MK-801; Suprachiasmatic nucleus (De Vries, M.J. (642) 206)

Circadian rhythm; Suprachiasmatic nucleus; NMDA; Nitric oxide (Watanabe, A. (646) 161)

Photoperiodic perception; Circadian rhythm; Immediate early gene expression; Visual system (Vuillez, P. (654) 81)

Anterograde neuronal tracing; Choleratoxin; Hamster; Suprachiasmatic nucleus; Hypothalamus; Nitric oxid synthase; NADPH-diaphorase (Decker, K. (666) 284)

Retinoic acid
Apoptosis; Protein kinase C; Sensory neuron (Mailhos, C. (644) 7)

Retinopetal projection
Visual system; Isthmo-optic projection; Fish; Amphibian; Reptile (Malz, C.R. (661) 259)

Retinotectal connection
Frog optic tectum; In vivo whole-cell recording; Nystatin; Retinal ganglion cell; Synapse (Nakagawa, H. (665) 319)

Retinotectal system
Calbindin; Optic tectum; Parvalbumin; Subcortical visual pathways; Visual system (Britto, L.R.G. (661) 289)

Retrofacial nucleus
Vomiting; Central pattern generator; Cerebellum; Brainstem (Miller, A.D. (647) 255)

Retrograde axonal transport
Junctional epithelium; Di-I; Trigeminal nerve fiber; Epithelial permeability (Sugaya, A. (653) 330)

Retrograde degeneration
Substantia nigra pars compacta; Excitotoxin; Striatum; Cell size; Tyrosine hydroxylase (Lundberg, C. (644) 205)

Retrograde-labeling
Ca^{2+}/calmodulin-dependent protein kinase II; Retina; Ganglion cell (Terashima, T. (650) 133)

Retrograde tracing
Myotoxin; Neurotoxin; Facial nerve; Orbicularis oculi muscle; DiI (McLoon, L.K. (641) 105)

Blood pressure; Spinal cord; Immunohistochemistry; Cholera toxin B subunit (Minson, J.B. (646) 44)

Septohippocampal system; Fimbria-fornix; Supracallosal stria; Fluorescent dye; Topographical projection (Peterson, G.M. (646) 129)

Adenovirus; Gene transfer; β-Galactosidase; Substantia nigra; Dopaminergic cell (Ridoux, V. (648) 171)

Retrograde transport
Choline acetyltransferase; Propriospinal; Spinal cord; Rat; Immunocytochemistry (Sherriff, F.E. (634) 150)

Bulbospinal neuron; Whole-cell recording; Brainstem slice; DiI (Kangrga, I.M. (641) 181)

Sino-atrial node; Bradycardia; Ganglion; Nucleus ambiguus; Substance P; Synapse; Ultrastructure; Vagus nerve (Massari, V.J. (660) 275)

Retroviral vector
Growth factor; Nerve growth factor; Rat retina (Castillo, Jr., B. (647) 30)

Retzius neurone
Excitatory amino acid; Glutamate; Glutamate antagonist; Leech; Glial cell (Dörner, R. (665) 47)

Re-uptake inhibition
In vivo microdialysis; Striatum; Amantadine; Dopaminergic neuron; *N*-Methyl-D-aspartate receptor (Mizoguchi, K. (662) 255)

Reversal conditioning
Cerebellum; Discrimination; Eyelid conditioning; Multiple-unit recording; Rabbit (Gould, T.J. (652) 98)

Reversal time
Nerve; Protein transport; Organelle transport; Transport reversal (Snyder, R.E. (635) 49)

Reverse transcriptase-PCR
Acetylcholinesterase; AF64A; Butyrylcholinesterase; Differential PCR display; Hippocampus; Septum (Lev-Lehman, E. (661) 75)

Reverse transcription-polymerase chain reaction
Glucose sensor; Glucose transporter; GLUT 2; Immunocytochemistry; Hypothalamus; Caudal hindbrain; Glucostatic theory (Leloup, C. (638) 221)

Reward
Opioid; Food restriction; Weight loss; Self-stimulation (Carr, K.D. (639) 253)

Amphetamine; Dopamine; Intracranial self-stimulation; Reinforcement; Nucleus accumbens; Caudate-putamen; Curve shift (Ranaldi, R. (642) 251)

Nucleus accumbens; Ventral pallidum; NMDA acid; Intracranial self-stimulation; Self-stimulation (Johnson, P.I. (646) 73)

Morphine; Nimodipine; Bay K-8644; Mouse; Analgesia (Kuzmin, A.V. (652) 1)

Opioid receptor; Food restriction (Wolinsky, T.D. (656) 274)

Dynorphin; Food restriction (Berman, Y. (664) 49)

Opioid; Streptozotocin; Diabetes (Carr, K.D. (664) 211)

Feeding; Nucleus accumbens; YM-09151-2; Meal patterning; Switching (Clifton, P.G. (667) 123)

Rhythm
Age; Circadian; Djungarian hamster; Hypothalamus; Immunocytochemistry; Neuropeptide; *Phodopus sungorus*; Photoperiod; Sex; Substance P; Suprachiasmatic nucleus (Reuss, S. (638) 189)

Aging; Graft; Circadian; Activity; Benzodiazepine (Van Reeth, O. (643) 338)

PER protein; Suprachiasmatic nucleus; Rat (Rosewell, K.L. (659) 231)

N-Methyl-D-aspartate; MK-801; Sympathetic; Development (Sica, A.L. (665) 323)

Rhythmical slow activity
Hippocampus; Theta; Electroencephalogram; Neural oscillation; Coherence; Phase; Commissural connection (Kocsis, B. (660) 341)

Rhythmicity
Acetylcholine; Frequency depression; Glutamatergic synapse; Neuromodulation; Nucleus accumbens; Presynaptic; Stimulus rate (Pennartz, C.M.A. (645) 231)

Rilmenidine
2-Deoxyglucose; B-HT 933; Cerebral glucose utilization; Hypotension; Spontaneously hypertensive rat; Brainstem (Browne, S.E. (666) 216)

***Rinis communis* agglutinin**
Ferritin; Microglia; Cerebellum; Subarachnoidal hemorrhage; Iron (Ozawa, H. (651) 345)

c-fos mRNA
Focal brain ischemia; Immediate early gene; Oxygen-free radicals; Superoxide dismutase; Transgenic mouse (Kamii, H. (662) 240)

mRNA
Development; Cat; Vision; Activity; Cloning; Gene expression; Sequence identity (Prasad, S.S. (639) 73)

Corticosterone; Corticotropin-releasing hormone; Amygdala; Paraventricular nucleus (Makino, S. (640) 105)

Striatum; Glutamate decarboxylase; Preproenkephalin; Dopamine (Soghomonian, J.-J. (640) 146)

Vasocative intestinal peptide; Development; Suprachiasmatic nucleus; Biological clock (Glazer, R. (644) 164)

Spreading depression; Seizure; Glial fibrillary acidic protein; Hippocampus (Bonthius, D.J. (645) 215)

Senescence-accelerated mouse; Nerve growth factor; Neurotrophin; Development; Hippocampus (Kaisho, Y. (647) 139)

Kindling; Thyrotropin-releasing hormone; Carbamazepine; Tolerance; Hippocampus; Entorhinal cortex; Pyriform cortex; Perirhinal cortex; In situ hybridization (Rosen, J.B. (651) 252)

Stress; Corticotropin releasing hormone; Amygdala; Hypothalamus (Kalin, N.H. (656) 182)

Glucocorticoid receptor; Mineralocorticoid receptor; Hippocampus; Aging; Spatial learning (Yau, J.L.W. (657) 59)

Corticosterone; Corticotropin-releasing hormone; Bed nucleus of the stria terminalis; Amygdala; Paraventricular nucleus (Makino, S. (657) 141)

Nucleus accumbens; Neurotensin; Tachykinin; Novelty; Individual difference (Hooks, M.S. (663) 312)

mRNA expression
Serotonin 5-HT_{1A} receptor distribution; 8-Hydroxy-DPAT; Autoptic human brain (Marazziti, D. (658) 55)

mRNA stability
Hippocampus; In situ hybridization (Wetzel, D.M. (649) 117)

Ro 15–1788
Fear; Anxiety; Amygdala; Septum; Midazolam; Receptor (Pesold, C. (638) 295)

Robust nucleus of the archistriatum
GABA; Immunohistochemistry; Bird song; Higher vocal center; Sex difference (Grisham, W. (651) 115)

Rod
Retina; Horizontal cell; Dark adaptation; Electrical coupling; Cone; Light adaptation (Mangel, S.C. (659) 55)

Rodent
Substantia nigra pars reticulata; Dopamine; Dopamine D_1 receptor; Dopamine D_2 receptor; Apomorphine; Quinpirole; Striatonigral pathway (Yurek, D.M. (639) 329)

Roman high- and low-avoidance rats
$GABA_A$ receptor; TBPS binding; $^{36}Cl^-$ uptake; Dopamine D_1 receptor; Stress; Psychogenetic selection (Giorgi, O. (638) 13)

Rostral ventrolateral medulla
Tyrosine hydroxylase; Biocytin; Intracellular electrophysiology; Cardiovascular control; Respiratory control (Pilowsky, P. (633) 63)

Cerebral blood flow; Cerebral glucose utilization; Hypoxia; Rat (Underwood, M.D. (635) 217)

Spinal trigeminal nucleus; Arterial pressure; c-*fos*; Tyrosine hydroxylase; Nasopharyngeal reflex (Gieroba, Z.J. (636) 157)

Cyanide; Hypoxia; Protein kinase C; Arachidonic acid; Inward current; Reticulospinal sympathoexcitatory neuron (Sun, M.-K. (636) 245)

Intermediolateral nucleus; Glutamate; GABA; Immunocytochemistry; Spontaneously hypertensive rat; Caudal ventrolateral medulla; Cardioacceleration (Miura, M. (638) 139)

Pain; Brainstem; Antinociception; Dorsal horn; Catecholamine (Siddall, P.J. (645) 61)

Adrenaline; Nucleus tractus solitarii; Substantia innominata; Calbindin D-28k (Granata, A.R. (645) 265)

Intracellular recording; PNMT-containing neuron; EPSP; Antidromic activation; Intracellular labeling (Granata, A.R. (648) 299)

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Caudal ventrolateral medulla; Baroreceptor reflex; Fos immunoreactivity (Badoer, E. (657) 258)

Rostral ventrolateral reticular nucleus
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Rostral ventromedial medulla
Antinociception; Periaqueductal gray; Morphine; Lidocaine; Descending inhibitory pathway (Urban, M.O. (652) 9)

Rostroventromedial medulla
Nociception; Tail flick; On-cell; Off-cell; Unanesthetized; Decerebrated (Clarke, R.W. (636) 169)

Rotation
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Parkinson's disease; Dopamine-releasing protein; Neurotrophic factor; Dopamine; Substantia nigra; Corpus striatum (Phelps, S.M. (666) 117)

Repeated amphetamine; Sensitization; Striatum; DA; DA transporter; DA uptake (Mintz, M. (668) 239)

Rotational behavior
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Rotation Corticosterone
L-DOPA; Receptor supersensitivity; Dopamine; 6-Hydroxydopamine (Carey, R.J. (658) 145)

Rp-cAMPS
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Immediate early gene expression; c-*fos*; AP1 transcription factor; In situ hybridization; Brain trauma (Yang, K. (664) 141)

RU486
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RU 28318
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RU28362
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RU 38486
Learning; Memory; Corticosterone; RU 28318; Glucocorticoid receptor; Mineralocorticoid receptor; Chick (Sandi, C. (647) 106)

Rubidium
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Nerve growth factor; PC12D cell; Neurite; Growth cone; Chemotaxis (Sano, M. (656) 210)

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Saccade
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Hair cell; Cholinergic receptor; Inositol trisphosphate; Heparin; Lithium (Yoshida, N. (644) 90)

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Salsolinol
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Salt
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Salt appetite
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SAMR2
Senescence accelerated mouse (SAM); SAMP8; Glucose metabolism; Glucose transporter; Cytochalasin B (Sato, E. (637) 133)

Saporin
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Saxitoxin
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S-100β
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SBFI microfluorometry
Cat adrenal chromaffin cell; Cytosolic free calcium; Fura-2 microfluorometry; Cytosolic free sodium; Cd^{2+}; Co^{2+} (Yamagami, K. (646) 295)

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Extracellular matrix; cAMP; Gene expression (Yamamoto, M. (653) 335)

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SDZ 216-525
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Secondary ischemia
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Second messenger
Naftidrofuryl oxalate; Neurotransmitter; Receptor; Serotonin 5-HT_2 antagonist; Gerbil; Hippocampus; Aging (Ban, H. (646) 211)

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SEC-receptor
Ageing; Microvasculature; Amyloid peptide; Substance P (Khalil, Z. (651) 227)

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Section thickness
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Kindling; Kindled seizure; Epileptogenesis; Epilepsy; Hippocampus; Limbic system (Lothman, E.W. (649) 71)

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Hippocampus; In vitro release; Neuropeptide Y; Rat; Sprouting; Temporal lobe epilepsy (Vezzani, A. (660) 138)

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Seizure activity
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Seizure network
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Selective agonist
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Amygdala; Cocaine; Dopamine; 6-Hydroxydopamine; Progressive ratio; Reinforcement (McGregor, A. (646) 273)

Corticosterone; Cocaine; Metyrapone; Psychomotor effect; Drug abuse (Piazza, P.V. (658) 259)

Self-assembled monolayer
Chemically patterned substrate; Neuritic process orientation; Electrical stimulation; Neuroblastoma cell; Cell culture (Matsuzawa, M. (667) 47)

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Sendide
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Senescence-accelerated mouse
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Senescence accelerated mouse (SAM)
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Senile plaque
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Alz-50; Alzheimer's disease; Human hypothalamus; Somatostatin; Somatostatin-like (Van de Nes, J.A.P. (655) 97)

Sensitization
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Cocaine; Dopamine; Dopamine D_1 receptor; Dopamine D_2 receptor; Nimodipine; EEDQ (Burger, L.Y. (639) 228)

Addiction; Social isolation; Corticosterone; Morphine; Locomotor activity (Deroche, V. (640) 136)

Amphetamine; Locomotion; NMDA; Nitric oxide synthase (Stewart, J. (641) 141)

Cocaine; Genetic difference; Sex difference; Castration; Ovariectomy; Female; Rat (Haney, M. (645) 179)

Glutamate; Hippocampus; Quisqualate; CA1 pyramidal neuron; AP4; AP6; Excitatory amino acid; Excitatory amino acid (Schulte, M.K. (649) 203)

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Individual difference; Conditioning; Amphetamine-induced hyperlocomotion; Drug abuse; Amphetamine; Locomotion (Jodogne, C. (657) 236)

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Cocaine kindling; Prefrontal cortex; Hippocampus (Schenk, S. (659) 17)

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Glutamate; Hippocampus; Quisqualate; Excitatory amino acid (Price Jr., R.H. (663) 317)

Methamphetamine; Fos protein; Striatum; *N*-Methyl-D-aspartate receptor; MK-801; Rotational behavior; Immunohistochemistry (Ohno, M. (665) 135)

Cocaine; Amphetamine; MK-801; Nucleus accumbens; Microdialysis; Dopamine (Wolf, M.E. (666) 223)

Amphetamine; Microdialysis; Nucleus accumbens; Stimulant; Inbred rats strain; Locomotion; Stereotyped behavior; Pharmacokinetics (Camp, D.M. (668) 180)

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Sensorimotor cortical territory
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Sensorimotor gating
Nucleus accumbens; Quinolinic acid; Startle; Striatum (Kodsi, M.H. (643) 59)

Sensorimotor reaction
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Sensory
Non-pyramidal neuron; White matter; Motor; Association area (Hashikawa, T. (641) 341)

Olfaction; Bulbectomy; Olfactory marker protein; Regeneration; Reinnervation; Cerebral cortex (Hendricks, K.R. (648) 121)

Olfaction; Olfactory marker protein; Regeneration; Reinnervation; Cerebral cortex; Olfactory nerve; Transplantation (Hendricks, K.R. (648) 135)

Sensory afferent
Neuropeptide; FMRFamide; CNS; Chemoreception; Immunocytochemistry; Crustacean; Decapod (Schmidt, M. (653) 315)

Electrical synapse; Dye-coupling; Antidromic spike; Crayfish (Marchand, A.R. (667) 98)

Sensory cortex
Neuromagnetism; Brain plasticity; Evoked field (Rossini, P.M. (642) 169)

Brain; Hippocampus; Transcription factor; Regulatory protein; c-*fos*; c-*jun*; Seizure; Metrazole; CREB; Limbic cortex; Cerebellum; Gel-shift; EMSA; Supershift (Łukasiuk, K. (643) 227)

Sensory gating
Blink reflex; Brainstem; Conditioned response; Prepulse inhibition; Reflex modification (Valls-Solé, J. (650) 313)

Sensory–motor convergence
Substantia nigra; Awake monkey; Unit activity; Motor control; Polymodal sensory (Magariños-Ascone, C. (646) 299)

Sensory neglect
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Sensory nerve
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Apoptosis; Retinoic acid; Protein kinase C (Mailhos, C. (644) 7)

Peripheral nerve regeneration; Mouse genetics (Lu, X. (652) 174)

Bradykinin; Capsaicin; Dorsal root ganglion; Prostaglandin (Hingtgen, C.M. (655) 51)

Septal cell
Acetylcholine synthesis; Acetylcholine release; Calcium; Choline acetyltransferase; cAMP; Nerve growth factor (Suzuki, T. (665) 311)

Septal infusion
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Septal stimulation
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Septide
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Septohippocampal
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Septohippocampal cholinergic system
Corticosterone; AF64A; Cholinergic hypofunction; Amine content (Amoroso, D. (661) 9)

Septo-hippocampal pathway
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Septo-hippocampal system
Development; Muscarinic cholinergic receptor; Cholineacetyltransferase; Lead; Perinatal exposure; Rat (Bielarczyk, H. (643) 211)

Basal forebrain; Choline acetyltransferase; Parvalbumin; Inbred mouse; Double labeling; Quantitative analysis (Linke, R. (653) 73)

Septohippocampal system
Fimbria-fornix; Supracallosal stria; Retrograde tracing; Fluorescent dye; Topographical projection (Peterson, G.M. (646) 129)

AF64A; Cholinergic lesion; Spatial learning and memory; Nerve growth factor receptor; Acetylcholinesterase depletion; Calcium channel blocker (Maier, D.L. (648) 281)

Ethanol; Ethanol neurotoxicity; GM1; Cycloheximide; Neuroprotection; Dorsal root ganglion (Heaton, M.B. (654) 336)

Septum
Aromatase enzyme; Musk shrew; Immunocytochemistry; Sexual behavior; Limbic region; Estrogen receptor; Amygdala (Dellovade, T.L. (634) 141)

Acetylcholine; Basal nucleus of Meynert; Dementia; Diagonal band; Inbred strain; Substantia innominata; Neostriatum (Bentivoglio, A.R. (637) 181)

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Theta rhythm; Hippocampus; Carbachol; Atropine; Gallamine; Muscarinic M_2 receptor; Septal infusion (Monmaur, P. (656) 199)

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Sequence
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Sequence identity
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D-Serine
Distribution; Vertebrate; Brain; Cerebrum; Cerebellum; NMDA receptor; D-Amino-acid oxidase (Nagata, Y. (634) 291)

Excitatory amino acid; NMDA; AMPA; AP5; CPPene; 7-Chlorokynurenate; NBQX; CNQX; Neurotransmission (Qume, J.D.M. (649) 43)

Serine-threonine phosphatose
Leech neuron; Okadaic acid; Calyculin A; Calcium imaging; Neuromodulation (Kleinhaus, A.L. (650) 326)

Seromucous gland
Nitric oxide synthase; Nasal mucosa; Blood vessel; Epithelium; Immunohistochemistry; Rat (Hanazawa, T. (657) 7)

Serotonergic
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Serotonergic cell
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Neuro–glia interaction; Mutant mouse; S-100β; Growth factor; Cell culture (Ueda, S. (633) 284)

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Serotonin receptor; Serotonin 5-HT_{1D} receptor; Serotonin 5-HT_{1E} receptor; Human brain; Autoradiography; Post-mortem (Barone, P. (638) 85)

Glucocorticoid receptor; Mineralocorticoid receptor; Methamphetamine; Adrenalectomy; Dopamine; Corticosterone (Lowy, M.T. (638) 175)

Suprachiasmatic nucleus; 8-Hydroxy-DPAT; Buspirone; NAN-190; Tryptophan; Fos; Light; Circadian rhythm; Hamster (Glass, J.D. (638) 235)

Adrenergic fiber; Autonomic nervous system; Catecholamine; Histamine; Medulla oblongata; Pancreas; Parasympathetic nervous system; Pseudorabies virus; Raphe nucleus; Vagus nerve; Viral transneuronal labeling (Loewy, A.D. (638) 248)

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Circadian rhythm; Suprachiasmatic nucleus; High performance liquid chromatography; Entrainment; Rat (Cagampang, F.R.A. (639) 175)

MK-801; Reserpine; *p*-CPA; L-DOPA; Catecholamine; Apomorphine; Bladder reflex (Yoshiyama, M. (639) 300)

Fenfluramine; Feeding behavior; Brain site; Fos; Jun; Immediate early gene (Li, B.-H. (640) 255)

Interleukin-1; Interleukin-6; Leech; Protein phosphorylation; Learning (Bottai, D. (641) 155)

Spatial learning; Hippocampus; Dentate gyrus; Granule cell; Interneuron (Richter-Levin, G. (642) 111)

Long-term potentiation; Theta burst stimulation; NMDA receptor; GABA receptor; CA1; Hippocampal slice (Staubli, U. (643) 10)

Supragenual; Prefrontal cortex; Cingulate; Excitatory amino acid; Glutamatergic; Corticocortical; Spiperone (Read, H.L. (643) 17)

Interleukin-1; Interleukin-2; Interleukin-6; Norepinephrine; Dopamine; Corticosterone (Zalcman, S. (643) 40)

Pinealocyte; Melatonin; Ketanserine (Olcese, J. (643) 150)

Methamphetamine; Neurotoxicity; Glutamate; Dopamine; Microdialysis (Abekawa, T. (643) 276)

Locus coeruleus; Olfactory bulb; Norepinephrine; Dopamine; Associative learning; Memory; Rat pup (Sullivan, R.M. (643) 306)

Electrophysiology; Ipsilateral abducens nucleus; Lateral vestibular nucleus; Polysynaptic neuron (Kishimoto, T. (644) 47)

Circadian rhythm; Suprachiasmatic nucleus; K^+ channel; Apamin; Charybdotoxin; Protein kinase A; cAMP (Prosser, R.A. (644) 67)

1-Methyl-6,7-dihydroxy-1,2,3,4-tetrahydroisoquinoline; Salsolinol; Dopamine; Striatum; Substantia nigra; Hippocampus; Hypothalamus; Microdialysis (Nakahara, D. (644) 226)

ACTH; Corticosterone; Norepinephrine; Tryptophan; Newcastle disease virus (Dunn, A.J. (645) 103)

Primary immunization; Microdialysis (in vivo); Frontal cortex; Cyclosporin A (Gardier, A.M. (645) 150)

Control of breathing; Hypoglossal motoneuron; Microdialysis; Pons; REM sleep; Sleep apnea syndrome; Upper airway (Kubin, L. (645) 291)

Uptake; Dopamine; Transporter; Fetal; Rat; Monoamine; Development (Hyde, C.E. (646) 118)

Fenfluramine; Modulation; Human; Frontal cortex; PET (Kapur, S. (646) 292)

Immediate-early gene; Psychotropic drug; Dopamine; DARPP-32; Nitric oxide synthase; Hypothalamic-pituitary-adrenal axis (Torres, G. (647) 1)

Cholinergic; Synapse; Tegmentum; REM sleep; PGO spike; Immunohistochemistry; Electron microscopy (Honda, T. (647) 299)

Dorsal raphe nucleus; REM sleep; Brainstem; Microdialysis (Portas, C.M. (648) 306)

Fluoxetine; Norepinephrine; Antidepressant; Prozac (Frankfurt, M. (650) 127)

Hippocampus; Acetylcholine; Memory; Alzheimer's disease (Murtha, S.J.E. (651) 16)

Suprachiasmatic nucleus; Entrainment; Circadian; Light; DPAT; Metergoline; 5-CT; NAN-190; SDZ 216-525; Propranolol; 5-HT_{1A} receptor (Ying, S.-W. (651) 37)

Interleukin-1; Glucocorticoid; Voltammetry, in vivo; Hypothalamus (Gemma, C. (651) 169)

Norepinephrine; Apomorphine; Microdialysis; Neostriatum; Parkinson's disease (Mandel, R.J. (653) 57)

Ventral tegmental area; Substantia nigra; Dopamine neuron (Pessia, M. (654) 324)

Epilepsy; Immunocytochemistry; GABA; Glia; Noradrenaline; Choline acetyltransferase; Cerebral cortex (Araneda, S. (655) 135)

Thyrotropin-releasing hormone; 5,7-Dihydroxytryptamine; Monosynaptic reflex; Spinal cord; Neonatal rat (Deshpande, S.B. (655) 263)

Suprachiasmatic nucleus; 8-Hydroxy-DPAT; Glutamate; Circadian rhythm; Microdialysis; Hamster (Srkalovic, G. (656) 302)

NMDA; Glutamate; Raphe; (+)-MK 801 (Lejeune, F. (656) 427)

Methamphetamine; Neurotoxicity; Environmental temperature; Dopamine; MK-801; Phenobarbital; Diazepam (Ali, S.F. (658) 33)

Dystonia; Dopamine; Noradrenaline; Basal ganglia; Brainstem (Löscher, W. (658) 199)

p-Chloroamphetamine; Nucleus accumbens; Brain dialysis; Dopamine; Locomotor activity; Freely moving rat (Sugita, R. (658) 255)

Primary culture; Astrocyte; Dopamine; Norepinephrine; GABA; Glutamate; Peripheral benzodiazepine receptor (Itzhak, Y. (660) 346)

Medial septum; PA and spatial navigation; Nicotine; THA (Riekkinen Jr., P. (662) 95)

Spinal cord; Substance P; Cholecystokinin; Opiate; Excitatory amino acid; Hyperalgesia; CP96345; L 365260; Methysergide; Norbinaltorphimine; Naltrexone (Watkins, L.R. (664) 17)

Phosphoinositide hydrolysis; D-Fenfluramine; *p*-Chloroamphetamine; Carbachol; Rat cortex; Alzheimer's disease (Erfurth, A. (665) 107)

Parafascicular neuron; Nociceptive suppression; Intrathecal administration; Norepinephrine; Naloxone; Atropine (Li, Y.-J. (666) 113)

Serotonin 1A receptor
Serotonin 2 receptor; Intact rat; Ventromedial nucleus of the hypothalamus; 8-OH-DPAT; DOI (Uphouse, L. (668) 271)

Serotonin 5-HT_1 receptor
Nociception; Dorsal horn; Intrathecal (Ali, Z. (661) 83)

Serotonin 5-HT_{1A} autoreceptor
21-Day treatment; Fluoxetine; Dorsal raphe nucleus; Suprachiasmatic nucleus; Serotonin overflow; Fast cyclic voltammetry; Serotonin 5-HT_{1B} autoreceptor (O'Connor, J.J. (640) 328)

Serotonin HT_{1A} receptor
Hippocampus; Asymmetry; 8-Hydroxy-DPAT; Locomotion; Learning; Memory; Anxiety (Belcheva, I. (640) 223)

Serotonin 5-HT_{1A} receptor
Ovariectomized rat; Intact rat; Desensitization; Female sexual behavior (Uphouse, L. (637) 173)

$GABA_B$ receptor; $GABA_A$ receptor; Neocortex; Hippocampus; Estros cycle; Steroid hormone; Progesterone; Estrogen (Al-Dahan, M.I. (640) 33)

Glucose; Insulin; Hypothalamus; 8-Hydroxy-DPAT; Feeding (Jhanwar-Uniyal, M. (646) 247)

Serotonin 5-HT_2 receptor; Serotonin transporter; Adrenalectomy; RU28362; Aldosterone (Kuroda, Y. (648) 157)

Nicotinic cholinergic receptor; 8-Hydroxy-DPAT; Mecamylamine; Morris water maze; Learning vs. performance (Riekkinen, M. (649) 174)

Serotonin 5-HT_{1A} receptor distribution
8-Hydroxy-DPAT; Autoptic human brain; mRNA expression (Marazziti, D. (658) 55)

Serotonin 5-HT_{1B} autoreceptor
21-Day treatment; Fluoxetine; Dorsal raphe nucleus; Suprachiasmatic nucleus; Serotonin overflow; Fast cyclic voltammetry; Serotonin 5-HT_{1A} autoreceptor (O'Connor, J.J. (640) 328)

Serotonin 5-HT_{1B} receptor
5,7-Dihydroxytryptamine; Parachlorophenylalanine; L-5-Hydroxytryptophan; Upregulation; Time course; Quantitative autoradiography; Suprachiasmatic nucleus; Rat (Manrique, C. (663) 93)

Serotonin 5-HT_{1D} receptor
Serotonin receptor; Serotonin 5-HT_{1E} receptor; Human brain; Autoradiography; Post-mortem; Serotonin (Barone, P. (638) 85)

Serotonin 5-HT_{1E} receptor
Serotonin receptor; Serotonin 5-HT_{1D} receptor; Human brain; Autoradiography; Post-mortem; Serotonin (Barone, P. (638) 85)

Serotonin 5-HT_2 antagonist
Naftidrofuryl oxalate; Neuronal damage; Cerebral blood flow; Gerbil; Cerebral ischemia (Fujikura, H. (636) 103)

Naftidrofuryl oxalate; Neurotransmitter; Receptor; Second messenger; Gerbil; Hippocampus; Aging (Ban, H. (646) 211)

Serotonin 5-HT_2 binding site
Suicide; Depression; Human post-mortem brain; Antidepressant drug; Ketanserin (Lowther, S. (642) 281)

Serotonin 5-HT_2 receptor
Serotonin 5-HT_{1A} receptor; Serotonin transporter; Adrenalectomy; RU28362; Aldosterone (Kuroda, Y. (648) 157)

Serotonin 5-HT_3 antagonist
Morphine; Serotonin 5-HT_3 receptor; Dopamine neuron; Ventral tegmental area (Gifford, A.N. (638) 325)

Serotonin 5-HT_3-like receptor
Hippocampus; CA1 pyramidal neuron; Synaptic transmission; 2-Methyl-5-hydroxytryptamine; L-Glutamate (Zeise, M.L. (651) 337)

Serotonin 5-HT_3 receptor
Morphine; Serotonin 5-HT_3 antagonist; Dopamine neuron; Ventral tegmental area (Gifford, A.N. (638) 325)

Nodose ganglion; Patch clamp; H-7; H-8; Protein kinase (Fan, P. (649) 310)

Serotonin neuron
Aromatic L-amino acid decarboxylase; L-DOPA; Carbidopa; Dopamine; Dorsal raphe nucleus; Rat (Arai, R. (667) 295)

Serotonin overflow
21-Day treatment; Fluoxetine; Dorsal raphe nucleus; Suprachiasmatic nucleus; Fast cyclic voltammetry; Serotonin 5-HT_{1A} autoreceptor; Serotonin 5-HT_{1B} autoreceptor (O'Connor, J.J. (640) 328)

Serotonin receptor
Nucleus tractus solitarii; Area postrema; Emesis; Human brainstem (Ohuoha, D.C. (637) 222)

Serotonin 5-HT_{1D} receptor; Serotonin 5-HT_{1E} receptor; Human brain; Autoradiography; Post-mortem; Serotonin (Barone, P. (638) 85)

5-Methoxy-*N*,*N*-dimethyltryptamine (5 MeODMT); Respiratory neuron; Tachypneic discharge; Respiratory inhibition (Lalley, P.M. (648) 87)

Serotonin 2 receptor
Serotonin 1A receptor; Intact rat; Ventromedial nucleus of the hypothalamus; 8-OH-DPAT; DOI (Uphouse, L. (668) 271)

Serotonin transporter
Serotonin 5-HT_{1A} receptor; Serotonin 5-HT_2 receptor; Adrenalectomy; RU28362; Aldosterone (Kuroda, Y. (648) 157)

Milnacipran; Paroxetine; Antidepressant-binding sites; Autoradiography; Lesion; 5,7-Dihydroxytryptamine (Barone, P. (668) 129)

Serotonin uptake site
p-Chloroamphetamine; Neurotoxicity; Monoamine oxidase; Pargyline; Deprenyl; Clorgyline (Benmansour, S. (650) 305)

Serum
Parkinson's disease; Dopaminergic neuron; Autoimmunity; Complement (Defazio, G. (633) 206)

Serum morphine level
Opiate; Benzodiazepine; Antinociception; Drug interaction; Met-enkephalin; Sedation (Sribanditmongkol, P. (645) 1)

Servo-mechanism
Long-latency stretch reflex; Evoked cerebral potential; Limb stiffness; Late reflex response (Chequer, R.S. (641) 273)

Sevoflurane
Rat; Hippocampus; Dissociated pyramidal neuron; Nystatin perforated patch; Chloride current (Wu, J. (645) 303)

Sex
Age; Circadian; Djungarian hamster; Hypothalamus; Immunocytochemistry; Neuropeptide; *Phodopus sungorus*; Rhythm; Photoperiod; Substance P; Suprachiasmatic nucleus (Reuss, S. (638) 189)

Sex difference
Spatial learning; Water maze; Deer mouse; Sex hormone; Seasonal difference; Reproductive status; Breeding and non-breeding (Galea, L.A.M. (635) 18)

Estradiol; Dopamine receptor; Striatum; Quantitative autoradiography; Progesterone (Bazzett, T.J. (637) 163)

Aromatase; Hypothalamus; Cortex; Cell culture; Immunocytochemistry; Regional-specific morphology; BALB/c mouse (Beyer, C. (638) 203)

Autoradiography; Castration; Hamster; Hypothalamus; Oxytocin; Vasopressin (Dubois-Dauphin, M. (638) 267)

Sensitization; Cocaine; Genetic difference; Castration; Ovariectomy; Female; Rat (Haney, M. (645) 179)

GABA; Immunohistochemistry; Bird song; Higher vocal center; Robust nucleus of the archistriatum (Grisham, W. (651) 115)

Long-term potentiation; Hippocampus; Pavlovian fear conditioning; Contextual learning; (Rat) (Maren, S. (661) 25)

Sex hormone
Sex difference; Spatial learning; Water maze; Deer mouse; Seasonal difference; Reproductive status; Breeding and non-breeding (Galea, L.A.M. (635) 18)

Sexual behavior
Aromatase enzyme; Musk shrew; Immunocytochemistry; Limbic region; Estrogen receptor; Septum; Amygdala (Dellovade, T.L. (634) 141)

Endogenous opioid; Naloxone; Sexual motivation; Diurnal variation (Van Furth, W.R. (636) 175)

Anterior hypothalamus; Brain lesion; Medial preoptic area; Reptile (Kingston, P.A. (643) 349)

Reproduction; Preoptic area; Japanese quail; *Coturnix japonica*; Aromatase synthesis (Foidart, A. (657) 105)

Quail; Photoperiod; Preoptic area; Testosterone (Thompson, R.R. (667) 201)

Sexual differentiation
Aromatase; Song system; Zebra finch (Wade, J. (639) 347)

Adrenaline; Dopamine; Estradiol; Hypothalamus; Luteinizing hormone; Luteinizing hormone-releasing hormone; Neuropeptide Y; Noradrenaline; Progesterone; Prolactin (Crowley, W.R. (663) 257)

Sexual dimorphism
Diazepam; Accessory olfactory bulb; Vomeronasal system; Neurofunctional teratology; $GABA_A$ receptor (Pérez-Laso, C. (634) 1)

Human placental antigen $X\text{-}P_2$; Aromatase cytochrome P-450; Medial preoptic region; Bed nucleus of stria terminalis; Medial amygdaloid nucleus (Nagano, M. (634) 296)

Brain microdialysis; Vasopressin; Hemorrhage; Blood pressure; Paraventricular nucleus (Ota, M. (658) 49)

Sexual function
Medial preoptic area; Ejaculation (Marson, L. (638) 103)

Sexual maturation
GABA; Luteinizing hormone; Androgenization; $GABA_A$ receptor; Ontogenesis (Szwarcfarb, B. (646) 351)

Sexual motivation
Endogenous opioid; Naloxone; Sexual behavior; Diurnal variation (Van Furth, W.R. (636) 175)

Sheep
Thirst; Cellular dehydration; Angiotensin II; Losartan; Brain sodium concentration; Cattle; Rabbit; Rat; Mouse (Blair-West, J.R. (637) 335)

Aromatic L-amino acid decarboxylase; Suprachiasmatic nucleus; Immunohistochemistry; Trace amines (Tillet, Y. (648) 319)

Amino acid; Monoamine; Mediobasal hypothalamus; Luteinizing hormone; Estrus behavior (Fabre-Nys, C. (649) 282)

Autoradiography; Development; Respiration; Receptor; Fetus; Newborn; Adult; Birth (Tai, T.-C. (652) 28)

Shell
NADPH-diaphorase; Calbindin-D28k; Huntington's disease; Calcium binding protein; Nucleus accumbens; Core (Hussain, Z. (656) 191)

Core; Choline acetyltransferase; Leucine^5-enkephalin; Opioid peptide; Silver-enhanced gold; Silver-intensified gold; Ventral striatum (Meredith, G.E. (667) 67)

SH group
Methylmercuric chloride; D-Aspartate; Rubidium; Astrocyte (Mullaney, K.J. (641) 1)

D-Aspartate; Rubidium; Astrocyte; Hypotonicity; Regulatory volume decrease (Aschner, M. (648) 16)

Shivering vs. BAT thermogenesis
Preoptic stimulation; Specific thermogenic activation (Thornhill, J. (656) 367)

Shock-induced analgesia
Amygdala; Cat-induced analgesia; Classically conditioned analgesia (Fox, R.J. (648) 215)

Short-term memory
Dopamine; Acetylcholine; Prefrontal cortex; Rat; Delayed-matching-to-position (Broersen, L.M. (645) 113)

Short-term potentiation
Long-term potentiation; Neocortex; Memory; Paired-pulse inhibition (Racine, R.J. (637) 73)

SH-SY5Y cell
Ciliary neurotrophic factor; Metabolic rate; Signal transduction; Cytosensor system (Johnson, R.M. (646) 327)

α-Sialyl cholesterol
Schwann cell; Laminin; Vincristine; Taxol; Cisplatin; K-562 cell; Rat (Konings, P.N.M. (654) 118)

Sickness behavior
Lipopolysaccharide; Opiate; Interleukin-1; Infection; Open field; Analgesia; Naltrexone; Fever; Rat (Yirmiya, R. (648) 80)

Sigma
Sleep; Neurophysiology; EEG; Beta; Delta; Fast Fourier transform; Computer analysis (Uchida, S. (659) 243)

Signal peptide
Low affinity nerve growth factor receptor; Nerve growth factor; Hypertension; Nucleotide sequence; Point mutation; Spontaneously hypertensive rat (Nemoto, K. (655) 267)

Signal transduction
G-protein; Adenylyl cyclase; Alzheimer's disease; Post-mortem human brain (O'Neill, C. (636) 193)

G protein; Calpain; Lithium (Greenwood, A.F. (636) 320)

Alzheimer's disease; Adenylyl cyclase; Hippocampus; Cerebellum; Adenosine A_1-receptor; G protein; Coupling (Schnecko, A. (644) 291)

Ciliary neurotrophic factor; Metabolic rate; SH-SY5Y cell; Cytosensor system (Johnson, R.M. (646) 327)

Human neurodevelopment; Fetal CNS; Neural cell differentiation (Larocca, J.N. (653) 9)

β-Amyloid protein; Brain cell proliferation; Growth factor; Alzheimer's disease (Singh, V.K. (660) 353)

Silicone
Nerve regeneration; Degeneration; Peripheral nerve; Implant; Matrix; Schwann cell (Zhao, Q. (633) 97)

Silver-enhanced gold
Shell; Core; Choline acetyltransferase; Leucine^5-enkephalin; Opioid peptide; Silver-intensified gold; Ventral striatum (Meredith, G.E. (667) 67)

Silver-intensified gold
Shell; Core; Choline acetyltransferase; Leucine^5-enkephalin; Opioid peptide; Silver-enhanced gold; Ventral striatum (Meredith, G.E. (667) 67)

Single cell
Bombesin; Gastrin-releasing peptide; Neuromedin B; Dorsal raphe; Suprachiasmatic nucleus; Periventricular; Action potential (Pinnock, R.D. (653) 119)

Single fiber response
Taste enhancement; Saccharin; D-Phenylalanine; Monkey chorda tympani nerve; Sweet taste receptor site (Ninomiya, Y. (635) 335)

Single neuron
Visual cortex; Patch-clamp; Voltage-clamp; GABA; Glycine; NMDA (Takahashi, Y. (640) 229)

Single neuron activity
Angiotensin III; Bestatin; Subfornical organ; Brain slice; Desensitization; Normotensive rat; Spontaneously hypertensive rat (Yang, C.C.H. (638) 169)

Single neuron modeling
Spontaneous activity; Olfaction; Receptor cell; Mitral cell; Stochastic process (Rospars, J.-P. (662) 31)

Single sodium channel
Dorsal root ganglion; Tetrodotoxin; Sodium channel; Tetrodotoxin-resistant sodium channel (Roy, M.L. (650) 341)

Single unit
Somatosensory cortex; Deafferentation; Cortical reorganization; Nerve transection; Electrophysiology; Chronic recording (Salimi, I. (656) 263)

Single unit activity
Ventral striatum; Hippocampus; Amygdala; Spatial memory (Lavoie, A.M. (638) 157)

Single-unit activity
Pain; Ventromedial medulla; Freely moving rat; Polyarthritic rat (Montagne-Clavel, J. (657) 92)

Single unit response
Microinjection; Cardiovascular control; Glutamate; Arterial pressure; Nucleus tractus solitari (Calaresu, F.R. (655) 45)

Sino-atrial node
Bradycardia; Ganglion; Nucleus ambiguus; Retrograde transport; Substance P; Synapse; Ultrastructure; Vagus nerve (Massari, V.J. (660) 275)

Skeletal muscle
Glucose uptake; Sympathetic nerve; Guanethidine; Adrenal medulla; Ventromedial hypothalamic nucleus (Minokoshi, Y. (649) 343)

Skeletal muscle graft
Spinal cord graft; Intraocular transplantation; Trophic effect (Trok, K. (659) 138)

Skin contactor
Sensorimotor reaction; Orbicularis oris; Active force dynamics; Mechanical stimulation; Electromyography; Adult (Andreatta, R.D. (646) 175)

SK-N-SH cell
Norepinephrine; Opioid; Opioid receptor; Neurotransmitter release; Catecholamine (Keren, O. (646) 319)

Sleep
Retina; Dorsal raphe nucleus; Periaqueductal gray; Serotonin; Wakefulness; Circadian rhythm; Tract tracing (Shen, H. (635) 159)

REM sleep; Acetylcholine; Thermoregulation (Szymusiak, R. (636) 115)

Circulation; Brain blood flow; Radioactive microsphere; Rat (Zoccoli, G. (641) 46)

Prolactin; Vasoactive intestinal polypeptide; REM (Obál Jr., F. (645) 143)

Electroencephalogram; Spectral analysis; Neurosteroid; Benzodiazepine; Rat (Lancel, M. (646) 85)

Hippocampus; Brain temperature; Behavior; Field potential; Urethane anesthesia (Cain, D.P. (658) 135)

Neurophysiology; EEG; Beta; Sigma; Delta; Fast Fourier transform; Computer analysis (Uchida, S. (659) 243)

Prolactin; Gene expression; Hypothalamus; Polymerase chain reaction; Vasoactive intestinal peptide; Pituitary adenylate cyclase-activating peptide (Bredow, S. (660) 301)

Nitric oxide; Nω-nitro-L-arginine methyl ester; Brain temperature; Rat; L-NAME (Kapás, L. (664) 189)

Sleep apnea syndrome
Control of breathing; Hypoglossal motoneuron; Microdialysis; Pons; REM sleep; Serotonin; Upper airway (Kubin, L. (645) 291)

Sleep cycle
Sleep–wake regulation; Thermoregulation; Slow-wave sleep; Non-rapid eye movement sleep; Temperature regulation (Krilowicz, B.L. (668) 30)

Sleep deprivation
Cytokine; Antibody; Electroencephalogram (Opp, M.R. (639) 57)

Sleep disturbance
Feline immunodeficiency virus; Env glycoprotein; AIDS (Prospéro-García, O. (659) 254)

Sleep-promoting substance
Brain temperature; Circadian rhythm; Glutamate; Intracerebroventricular infusion; Oxidized glutathione; Paradoxical sleep; Slow-wave sleep (Honda, K. (636) 253)

Sleep–wake cycle
Flow-metabolic coupling; Hemoglobin oxygenation state; REM sleep; Cerebral blood flow; Cerebral oxygen metabolic rate (Hoshi, Y. (652) 257)

Sleep–wake phase
Brain LH/hCG receptor; Behavior; PGD_2; PGE_2; Medial preoptic area; Hippocampus; Cerebral cortex (Toth, P. (654) 181)

Sleep–wake regulation
Thermoregulation; Slow-wave sleep; Non-rapid eye movement sleep; Temperature regulation; Sleep cycle (Krilowicz, B.L. (668) 30)

Slice
Striate cortex; Rat; Current source density; Electrophysiology (Kenan-Vaknin, G. (635) 37)

NMDA receptor; Glutamate receptor; Whole-cell recording; Voltage clamp; Vestibular nucleus; Medial vestibular nucleus; Rat (Takahashi, Y. (659) 287)

Slice culture
Mammalian central neuron; Intracellular recording; Synaptic integration; White noise; Neocortex; Hippocampus; Thalamus; Purkinje cell; Brain slice (Jahnsen, H. (666) 9)

Slice preparation
Ethanol withdrawal; Hyperexcitability; Burst response; Ca spike; Hippocampal CA1 neuron (Shindou, T. (656) 432)

Slowing of kinetics
Vertebrate rod photoreceptor; Transduction; cGMP renewal; Outer segment; Aging (Leibovic, K.N. (653) 325)

Slow wave
Dentate gyrus; Olfaction; Fast wave; Toluene; Noxious stimulation; Rat; Scopolamine (Heale, V.R. (652) 235)

Slow-wave sleep
Brain temperature; Circadian rhythm; Glutamate; Intracerebroventricular infusion; Oxidized glutathione; Paradoxical sleep; Sleep-promoting substance (Honda, K. (636) 253)

Basal forebrain; Nucleus basalis; Acetylcholine; Auditory cortex; Rat (Edeline, J.-M. (636) 333)

Preoptic/anterior hypothalamus; NREM sleep; EEG; Delta activity; Thermoregulation; Warming (McGinty, D. (667) 273)

Sleep–wake regulation; Thermoregulation; Non-rapid eye movement sleep; Temperature regulation; Sleep cycle (Krilowicz, B.L. (668) 30)

Slow wave sleep
Corticotropin-like intermediate lobe peptide; Vasoactive intestinal polypeptide; Delta sleep inducing peptide; Nucleus raphe dorsalis; Serotonin; Paradoxical sleep; Hypnogenic factor; Rat (El Kafi, B. (637) 211)

Small cell lung carcinoma
α-Bungarotoxin; Nicotinic acetylcholine receptor; Neuroendocrine cell (Quik, M. (655) 161)

Small intestine
Nucleus of the solitary tract; Fos-like immunoreactivity; Immunocytochemistry; Lipid; Carbohydrate (Zittel, T.T. (663) 266)

Smooth muscle
Ageing; Microvasculature; Substance P; Sciatic nerve; Endothelium (Khalil, Z. (641) 265)

Snail neuron
Quisqualate; Glutamate receptor; Protein phosphorylation; Ca^{2+}/calmodulin-dependent protein kinase II; Potassium current (Onozuka, M. (650) 336)

Glutamate; Glutamate receptor; Protein phosphorylation; Ca^{2+}/calmodulin-dependent protein kinase II; Potassium current (Watanabe, K. (654) 352)

Snell dwarf mouse
Hippocalcin; Growth hormone; Thyroid hormones; Immunohistochemistry (Sugisaki, T. (665) 101)

SNX-111 (ω-MVIIA)
Autoradiography; Neuronal calcium channel; Conopeptide; ω-Conotoxin (Gohil, K. (653) 258)

Social interaction
Autonomic nervous system; Anxiety; Acoustic startle response; Elevated plus-maze; Locomotor activity; Stress (Inglefield, J.R. (633) 151)

Social isolation
Addiction; Sensitization; Corticosterone; Morphine; Locomotor activity (Deroche, V. (640) 136)

Sodium
Cerebral anoxia; Cerebral ischemia; Depolarization; Hippocampus; Calcium; Potassium; ATP (Kass, I.S. (633) 262)

Sodium appetite
5-Carboxyamidotryptamine; Plasma renin activity; Hypotension; Fos-like immunoreactivity (Rowland, N.E. (664) 148)

Sodium channel
Chronic hypoxia; Immature brain; Receptor; Regulation; Saxitoxin (Xia, Y. (635) 339)

Primary afferent neuron; Tetrodotoxin-resistant; Spinal cord neuron; Excitatory transmission (Jeftinija, S. (639) 125)

Astrocyte; Axon; Calcium-mediated injury; Myelinated axon; Tetrodotoxin (Waxman, S.G. (644) 197)

Dorsal root ganglion; Tetrodotoxin; Single sodium channel; Tetrodotoxin-resistant sodium channel (Roy, M.L. (650) 341)

Cerebral ischemia; Ion homeostasis; Anoxic depolarization; Tetrodotoxin; Isolated perfused rat brain (Xie, Y. (652) 216)

Adenosine; Calcium-free; Procaine; Carbamazepine; Baclofen (Hosseinzadeh, H. (659) 221)

Ischemia; Stroke; Histology; Neuroprotection; Rat (Weber, M.L. (664) 167)

Sodium current
GABA; Muscimol; Baclofen; Calcium current; *Helix pomatia* (Haarmeier, Th. (663) 131)

Sodium deficiency
Rat; Tachykinin; Taste reactivity; Salt appetite (Smith, M.E. (665) 123)

Sodium green
Cortex; Hippocampus; Volume (Friedman, J.E. (663) 329)

Sodium nitroprusside
NMDA; Cerebral microcirculation; Aprikalim; Excitatory amino acid; Glutamate (Faraci, F.M. (654) 349)

Nitric oxide; Hippocampal slices; Long-term potentiation (Li, G. (667) 33)

Sodium pump
Osmotic regulation; Synaptosome (Aksentsev, S.L. (644) 1)

Astrocyte; Cell swelling; Na^+,K^+,$2Cl^-$ Cotransport (Mongin, A.A. (655) 110)

Sodium receptor
Commissural nucleus; Area postrema; Cardiovascular regulation; Sympathetic nervous system; Vagus (Hochstenbach, S.L. (644) 233)

Soleus
Circadian rhythm; H-reflex; Electromyogram; Rat (Chen, X.Y. (648) 167)

Solitary nucleus
Reproduction; Uterus; Cervix; Vagina; Colon; Viscera (Hubscher, C.H. (664) 1)

Soluble TNF receptor
Interleukin-1; Interleukin-1ra; Tumor necrosis factor; Endotoxin; Hyperalgesia; Indomethacin; Systemic; Intracerebroventricular; Intrathecal; Gandolinium chloride; Kupffer cell (Watkins, L.R. (654) 15)

Soman
Cerebral endothelial cell; Nitric oxide; NADPH-diaphorase; Neuron; Neuropathology (Bouchaud, C. (660) 249)

Somatic mutation
Neurophysin; Hypothalamus; Neurohypophysis; Aging (Van Leeuwen, F.W. (635) 328)

Somatic spine
Development; Synaptogenesis; In vitro slice; Hippocampus; Dentate gyrus (Wenzel, J. (656) 127)

Somatodendritic dopamine release
Electrochemistry; Mesocorticolimbic system; Ventral tegmental area (Zhang, H. (656) 59)

Somatosensory
Monkey; Parietal cortex; Microelectrode; Active touch; Spatial modulation (MacKay, W.A. (645) 351)

Dorsal column nucleus; Neurotrophic factor; Primary afferent; Topography (Foschini, D.R. (646) 1)

Capsaicin; Proton; Irritant; Chemosensitivity; Sensitization; Patch clamp; Neuron (Martenson, M.E. (651) 143)

Somatosensory asymmetry
Anteromedial cortex lesion; Phenobarbital; Recovery of function; Anti-convulsants (Hernandez, T.D. (635) 300)

Somatosensory cortex
Auditory cortex; Evoked potential; Polysensory (Di, S. (642) 267)

Primate; Area 17; Visual cortex; Corpus callosum; Development (Beck, P.D. (651) 57)

Single unit; Deafferentation; Cortical reorganization; Nerve transection; Electrophysiology; Chronic recording (Salimi, I. (656) 263)

Calcium binding protein; Non-pyramidal neuron; Basket cell; Thalamocortical afferent (McMullen, N.T. (660) 225)

Somatosensory discrimination
Positron emission tomography; Regional cerebral blood flow; Correlation analysis; Neuronal network (Kawashima, R. (663) 251)

Somatosensory evoked potential
Excitatory amino acid; Nucleus reticularis thalami (Block, F. (636) 143)

Somatosensory system
Prepotential; Juxtacellular recording; GABA; Input-output analysis; Information processing (Vahle-Hinz, C. (637) 139)

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Thalamus; Quantitative evaluation; Electrophysiology; Dendrite (Ohara, P.T. (648) 259)

Thalamus; Dendrite; Electrophysiology; Intracellular filling (Havton, L.A. (651) 76)

Somatospiny neuron
Lateral septum; Bed nucleus of stria terminalis; Cytochrome P450; Androgen (Jakab, R.L. (664) 85)

Somatostatin
Glucocorticoid; Adrenalectomy; Immunocytochemistry; Calcitonin gene-related peptide; Substance P; Galanin; Dorsal root ganglion (Coveñas, R. (640) 352)

Memory and learning; Cholinergic; Passive avoidance; Nucleus basalis magnocellularis; Cysteamine; FR121196; Physostigmine (Matsuoka, N. (642) 11)

Selective vulnerability; Excitatory amino acid; Excitotoxicity; Neuroprotection; Neuropeptide Y; Brain injury; Epilepsy (Penix, L.R.P. (644) 19)

Vasoactive intestinal polypeptide; Circadian rhythm; Suprachiasmatic nucleus; Cysteamine; Enzyme immunoassay; Rat (Fukuhara, C. (645) 343)

CREB; Transcription factor; Neocortex; Development; In situ hybridization; Immunocytochemistry (Imaki, J. (651) 269)

Androgen receptor; Immunoreactivity; Periventricular nucleus; Bed nucleus of the stria terminalis; Rat (Huang, X. (652) 291)

Alz-50; Alzheimer's disease; Human hypothalamus; Senile plaque; Somatostatin-like (Van de Nes, J.A.P. (655) 97)

β-Adrenoceptor; Corticotropin-releasing factor; Cytokine; Dexamethasone; Forskolin; Isoproterenol; Glucocorticoid (Takao, T. (656) 177)

Somatostatin-like
Alz-50; Alzheimer's disease; Human hypothalamus; Senile plaque; Somatostatin (Van de Nes, J.A.P. (655) 97)

Somatostatin receptor
Strychnine; G_i protein; Adenylyl cyclase; Brain; Rat (Puebla, L. (644) 59)

Somato-sympathetic reflex
Rostral ventrolateral medulla; Spinal reflex; Supraspinal reflex; Sympathetic nerve; Brain stem; Cat (Zanzinger, J. (656) 353)

Somatosympathetic reflex
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Song system
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Spatial delayed alternation
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Spatial learning
Sex difference; Water maze; Deer mouse; Sex hormone; Seasonal difference; Reproductive status; Breeding and non-breeding (Galea, L.A.M. (635) 18)

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Lateral dorsal thalamus; Hippocampus; Place cell (Mizumori, S.J.Y. (644) 168)

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Kainate; Neurotoxicity; Hippocampus; Water maze; Rat (Gayoso, M.J. (653) 92)

Glucocorticoid receptor; Mineralocorticoid receptor; Hippocampus; Aging; mRNA (Yau, J.L.W. (657) 59)

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Adrenalectomy; Radial arm maze; Dentate gyrus; Corticosterone; Adrenal steroid (Vaher, P.R. (656) 71)

Fimbria-fornix lesion; Neural transplantation; Long-term potentiation; Epileptiform activity; Hippocampus; Rat (Kleschevnikov, A.M. (656) 221)

Spatial modulation
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Spatial reference memory
Cholinergic neural transplant; Acetylcholinesterase; Fimbria-fornix lesion; Medial fimbria lesion; Cingulate lesion; Spatial working memory; Activity (Dalrymple-Alford, J.C. (661) 243)

Spatial working memory
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Spectrin isoform
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Spermidine
Polyamine; Lithium; Ornithine decarboxylase; Putrescine; Spermine; Dexamethasone; Brain; Rat (Gilad, G.M. (636) 187)

Spermidine binding
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Spermine
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Spike activity
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Spike facilitation
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Spike frequency
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Morphine tolerance; Morphine abstinence; NMDA receptor; MK-801; Brain region; Down-regulation; Rat (Gudehithlu, K.P. (639) 269)

Hyperalgesia; Dorsolateral funiculus; Nucleus raphe magnus; Nucleus reticularis paragigantocellularis; Vagal afferent; Liver; Lipopolysaccharide (Watkins, L.R. (639) 283)

Neuropathic pain; Hyperalgesia; Nitric oxide; Chromaffin cell; Neural transplantation (Hama, A.T. (640) 345)

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Nerve injury; Dorsal horn; Rat; Primary sensory neuron; Plasticity; Postsynaptic dorsal column pathway; Immediate early gene (Molander, C. (644) 74)

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Opioid; Dependence; NMDA; Kainate; AMPA; Excitatory amino acid (Yukhananov, R.Yu. (646) 194)

Substance P; Pain; Analgesia; Vagina; Cervix (Steinman, J.L. (647) 204)

Respiration; Caudal nucleus retroambigualis; Expiratory neuron; Axon collateral; Brainstem (Sasaki, S.-I. (648) 229)

Endothelin; Big endothelin-1; Cardiovascular response; Endothelin ET_A receptor; BQ-123; BQ-3020 (Poulat, P. (648) 239)

Sendide; Neurokinin NK_1 receptor; Morphine; Capsaicin; Mouse (Sakurada, T. (649) 319)

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Cholecystokinin; In vitro release; Morphine; μ Opioid receptor; δ Opioid receptor; κ Opioid receptor (Benoliel, J.J. (653) 81)

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Spinothalamic tract neuron; Strychnine; Bicuculline; Antinociception; Microdialysis; Monkey (Lin, Q. (654) 286)

Motor neuron disease; Motor cortex; AMPA receptor; Kainate receptor; Excitotoxicity; Non-NMDA receptor; Autoradiography (Shaw, P.J. (655) 186)

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αMSH; ACTH analog; Calcium; cAMP; Dorsal root ganglia; Schwann cell (Hol, E.M. (662) 109)

ATP; Glutamate; Neurotoxicity; Cultured neuron (Tsuji, K. (662) 289)

μ Opioid; κ Opioid; Nociceptive reflex; Stimulus intensity (Thorn, S.A. (663) 352)

NMDA; Nitric oxide; Hyperalgesia; Prostaglandin; MK-801; D,L-2-Amino-5-phosphonovaleric acid; L-NAME; Ibuprofen; Acetyl salicylic acid (Wiertelak, E.P. (664) 9)

Substance P; Cholecystokinin; Serotonin; Opiate; Excitatory amino acid; Hyperalgesia; CP96345; L 365260; Methysergide; Norbinaltorphimine; Naltrexone (Watkins, L.R. (664) 17)

Inflammation; Hyperalgesia; Aspartate; Glutamate; Dorsal horn; Microdialysis; Glycine; Serine (Sluka, K.A. (664) 77)

Substance P; CP96,345; CP96,344; Nociception; Joint pain; NK-1 receptor; Antibody microprobe (Neugebauer, V. (666) 207)

Astrocyte; Chondroitin sulfate; Corpus callosum; Electron microscopy; Immunohistochemistry; Node of Ranvier; Rat (Bjartmar, C. (667) 111)

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Skeletal muscle graft; Intraocular transplantation; Trophic effect (Trok, K. (659) 138)

Spinal cord injury
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Spinal cord neuron
Primary afferent neuron; Tetrodotoxin-resistant; Sodium channel; Excitatory transmission (Jeftinija, S. (639) 125)

Spinal cord repair
Nerve regeneration; Neural transplantion; Brachial plexus; Plasticity (Bertelli, J.A. (644) 150)

Spinal dorsal horn neuron
Capsaicin; Descending facilitation; Descending inhibition; Tail flick reflex (Zhuo, M. (645) 164)

Spinal ganglion
Glucocorticoid receptor; Immunocytochemistry; Neuropeptide; Primary sensory neuron (DeLeón, M. (636) 338)

Spinal nucleus of the bulbocavernosus
Calcitonin gene-related peptide; Mouse; Genotype; Castration (Wagner, C.K. (647) 37)

Spinal opiate antinociception
Excitatory amino acid; Tail-flick (Advokat, C. (641) 135)

Spinal reflex
Somato-sympathetic reflex; Rostral ventrolateral medulla; Supraspinal reflex; Sympathetic nerve; Brain stem; Cat (Zanzinger, J. (656) 353)

Arachidonic acid; Fusimotor neuron; Muscle spindle afferent; Muscle tonus; Work-related myalgia (Djupsjöbacka, M. (663) 293)

Spinal tract neuron
Sacral parasympathetic nucleus; Nociception; Urinary bladder; c-*fos*; Rat (Ding, Y.-Q. (659) 283)

Spinal transection
Cocaine; Dorsal horn neuron; Pain; Tail flick test; Dopamine (Kiritsy-Roy, J.A. (644) 109)

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Spinal trigeminal nucleus
Rostral ventrolateral medulla; Arterial pressure; c-*fos*; Tyrosine hydroxylase; Nasopharyngeal reflex (Gieroba, Z.J. (636) 157)

Spine
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Spinothalamic tract neuron
Strychnine; Bicuculline; Antinociception; Microdialysis; Spinal cord; Monkey (Lin, Q. (654) 286)

Spiperone
Serotonin; Supragenual; Prefrontal cortex; Cingulate; Excitatory amino acid; Glutamatergic; Corticocortical (Read, H.L. (643) 17)

Spiradoline
Antisense; Oligodeoxynucleotide; Opioid; Analgesia; κ Opioid receptor (Adams, J.U. (667) 129)

Spleen
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Spodoptera frugiperda insect cell
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Spongiform encephalopathy
Catalase; D-Amino acid oxidase; Edematous change; Hydrogen peroxide; Zitter rat (Gomi, H. (653) 66)

Spontaneous activity
Olfaction; Receptor cell; Mitral cell; Single neuron modeling; Stochastic process (Rospars, J.-P. (662) 31)

Brain ischemia; Gerbil; Nitric oxide; Nitroarginine; Histopathology (Shapira, S. (668) 80)

Spontaneous behavior
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Spontaneous generalized convulsion
Status epilepticus; Kindling; Neurophysiology; Chronic epileptogenicity; Perforant path; Dentate gyrus (Shirasaka, Y. (655) 33)

Spontaneous [^{3}H]GABA release
Nicotine; Dopamine; Globus pallidus; Substantia nigra; Rat (Kayadjanian, N. (649) 129)

Spontaneously hypertensive rat
Intermediolateral nucleus; Glutamate; GABA; Immunocytochemistry; Rostral ventrolateral medulla; Caudal ventrolateral medulla; Cardioacceleration (Miura, M. (638) 139)

Angiotensin III; Bestatin; Subfornical organ; Brain slice; Single neuron activity; Desensitization; Normotensive rat (Yang, C.C.H. (638) 169)

Wistar–Kyoto rat; Electrolytic lesion; Substantia nigra; Caudate nucleus; Blood pressure; Dopamine; In vitro superfusion (Linthorst, A.C.E. (639) 261)

Low affinity nerve growth factor receptor; Nerve growth factor; Hypertension; Nucleotide sequence; Point mutation; Signal peptide (Nemoto, K. (655) 267)

Dynorphin; Hippocampal formation; Blood pressure; Wistar–Kyoto rat; Colchicine; Hypertension (Privette, T.H. (656) 295)

2-Deoxyglucose; Rilmenidine; B-HT 933; Cerebral glucose utilization; Hypotension; Brainstem (Browne, S.E. (666) 216)

Aging; Immobilization stress; Hypothalamic paraventricular nucleus; Noradrenaline; Intracerebral microdialysis (Terrazzino, S. (668) 256)

Spontaneous synaptic activity
Tumor necrosis factor-α; Tumor necrosis factor receptor; Cultured hippocampal neuron; Miniature synaptic current (Grassi, F. (659) 226)

Sprague–Dawley rat
Noradrenaline; Adrenaline; Immunohistochemistry; Aging; Tyrosine hydroxylase; Phenylethanolamine-*N*-methyltransferase; Brainstem (Monji, A. (641) 171)

Spreading depression
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Hippocampus; High potassium; Glutamate; Adenosine; Adenosine uptake blocker; Population spike; Microdialysis (Kaku, T. (658) 39)

Ca^{2+} wave; Glial channel; Voltage-sensitive channel; Retina; Intrinisic optical signal (Fernandes de Lima, V.M. (663) 77)

Electroencephalography; Migraine; Glutamate (McLachlan, R.S. (666) 133)

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MPP^+; PC12 cell; Nerve growth factor; Apoptosis (Mutoh, T. (661) 51)

Sprouting
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Neurotensin; Dopamine; Methamphetamine; Schizophrenia; Locomotion; Nucleus accumbens (Wagstaff, J.D. (665) 237)

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$GABA_A$ receptor; $GABA_B$ receptor; Tuberoinfundibular dopaminergic neuron; Tonic inhibition; Prolactin (Wagner, E.J. (659) 194)

Stable transfectant
Gene expression; GAP-43; Transcription; H-DNA (Starr, R.G. (638) 211)

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Startle
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Stathmin
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Statistical model
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Calretinin; Substance P; Culture; Mouse (Rabejac, D. (652) 249)

Status epilepticus
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Limbic seizure; Heat shock protein; Cell death; Epileptic cell death; NMDA; Substantia nigra; Epilepsy (Tanaka, K. (660) 192)

Stellate ganglion
Neuropeptide; Sympathetic preganglionic neuron; Neuropeptide turnover; Neurotensin synthesis; Neuron activity (Maher, E. (640) 126)

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Adrenalectomy; Amygdala (Lee, Y. (666) 93)

Steroid hormone
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Vitamin D receptor; Central nervous system; Choroid plexus; Turtle; Reptilia; Autoradiography (Bidmon, H.-J. (640) 277)

Estrogen receptor; Proto-oncogene; Hypothalamus; c-*fos* (Tetel, M.J. (646) 267)

Steroid mechanism
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Steroidogenesis
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Stimulation-produced analgesia
Morphine microinjection; Periaqueductal gray; Formalin pain; Central sensitization; Plasticity (Vaccarino, A.L. (666) 104)

Stimulus intensity
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Stimulus rate
Acetylcholine; Frequency depression; Glutamatergic synapse; Neuromodulation; Nucleus accumbens; Presynaptic; Rhythmicity (Pennartz, C.M.A. (645) 231)

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Synaptosome; Rat cortex; Fura-2; Funnel web spider (Thomas, M.M. (635) 9)

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Stress
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c-*fos*; CRF antagonist; Locus coeruleus; Paraventricular nucleus of the hypothalamus; Fecal output (Bonaz, B. (641) 21)

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Glutamate receptor; Autoradiography; 6-Hydroxydopamine; Striatum; Parkinson's disease (Wüllner, U. (645) 98)

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ζ Subunit
Glutamate receptor channel; NMDA receptor channel; ε Subunit; In situ hybridization; Mouse; Retina; Development (Watanabe, M. (634) 328)

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Sulbutiamine
Thiamine; Thiamine triphosphate; Chloride channel; Rat brain (Bettendorff, L. (652) 157)

Sulfonylurea
ATP-sensitive K^+ channel; Glibenclamide; Human brain; Parkinson's disease; Progressive supranuclear palsy; Huntington's disease (Holemans, S. (642) 327)

6-Sulphatoxymelatonin
Circadian rhythm; Superior cervical ganglionectomy; Pineal; ACTH; Corticosterone; Rat (Siaud, P. (652) 273)

Superfusion
Taurine; Luteinizing hormone; Pituitary cell culture; Luteinizing hormone-releasing hormone; Mediobasal hypothalamus; NMDA (Arias, P. (634) 325)

NMDA; Glycine; Kynurenic acid; Strychnine; Norepinephrine; Hypothalamus (Johnson, D. (650) 70)

Superior cervical
NADPH; Nitric oxide; Sympathetic; Colocalization; Interaction (Vanhatalo, S. (652) 107)

Superior cervical ganglion
Acetylcholine; Sympathetic preganglionic regulation; Circadian rhythmicity; Choline acetyltransferase; Transmitter release (González Burgos, G.R. (636) 181)

Sympathetic nerve; Major petrosal nerve; Anterograde tracing; Cochlea; Wheat germ agglutinin–horseradish peroxidase; Rat (Shibamori, Y. (646) 223)

Parathyroid hormone; Calcitonin; Acetylcholine; Choline acetyltransferase; Transmitter release (Stern, J.E. (650) 267)

GABA; GABA receptor; Long-term potentiation (González Burgos, G.R. (658) 1)

Superior cervical ganglion cell
Axoplasmic transport; Adrenaline; Neurotransmitter; Organelle motion; Axonal transport regulation; Potentiation (Takenaka, T. (643) 81)

Superior cervical ganglionectomy
Circadian rhythm; Pineal; ACTH; Corticosterone; 6-Sulphatoxymelatonin; Rat (Siaud, P. (652) 273)

Superior colliculus
Enucleation; Auditory map; Auditory development; Directional hearing; Visual deprivation (Withington, D.J. (636) 348)

Subthalamic nucleus; Orienting behavior; Basal ganglia; *Phaseolus vulgaris*-leucoagglutinin; Fluoro–Gold (Tokuno, H. (639) 156)

Histamine H_3 receptor; Receptor autoradiography; Unilateral enucleation; Neuronal plasticity; Visual system (Nakagawa, Y. (643) 74)

Reticular formation; Substantia nigra; *Phaseolus vulgaris* leucoagglutinin; Wheat germ agglutinin-horseradish peroxidase; Rat (Yasui, Y. (656) 420)

Dorsal lateral geniculate nucleus; Corticotectal projection; Thalamic reticular nucleus; Posterior thalamic complex; Lateral posterior nucleus; Intralaminar thalamic nuclei (Deschênes, M. (664) 215)

Superoxide dismutase
Cerebral ischemia; Focal ischemia; Immunohistochemistry; Striatum; Cortex; Rat (Liu, X.-H. (644) 257)

6-Hydroxydopamine; Lipid peroxidation; Thiobarbituric acid-reacting substance; Cu/Zn-SOD mRNA (Ogawa, N. (646) 337)

Transgenic mouse; Methylenedioxyamphetamine; Methylenedioxymethamphetamine; Lethality; Free radical (Cadet, J.L. (655) 259)

Gene expression; Oxidative stress; Motoneuron; Amyotrophic lateral sclerosis (Bergeron, C. (659) 272)

Focal brain ischemia; Immediate early gene; c-fos mRNA; Oxygen-free radicals; Transgenic mouse (Kamii, H. (662) 240)

Supershift
Brain; Hippocampus; Transcription factor; Regulatory protein; c-*fos*; c-*jun*; Seizure; Metrazole; CREB; Sensory cortex; Limbic cortex; Cerebellum; Gel-shift; EMSA (Łukasiuk, K. (643) 227)

Supplementary motor area
Motor cortex; Arm movement (Bell, K.R. (655) 202)

Supracallosal stria
Septohippocampal system; Fimbria-fornix; Retrograde tracing; Fluorescent dye; Topographical projection (Peterson, G.M. (646) 129)

Suprachiasmatic nucleus
Circadian rhythm; Entrainment; Mammal (Kaufman, C.M. (633) 162)

Age; Circadian; Djungarian hamster; Hypothalamus; Immunocytochemistry; Neuropeptide; *Phodopus sungorus*; Rhythm; Photoperiod; Sex; Substance P (Reuss, S. (638) 189)

Serotonin; 8-Hydroxy-DPAT; Buspirone; NAN-190; Tryptophan; Fos; Light; Circadian rhythm; Hamster (Glass, J.D. (638) 235)

Circadian rhythm; Vasopressin; Aarginine-vasopressin; Immunoreactivity; Vole (Gerkema, M.P. (639) 93)

Circadian rhythm; Serotonin; High performance liquid chromatography; Entrainment; Rat (Cagampang, F.R.A. (639) 175)

NMDA; MK-801; Circadian rhythmicity; Glutamate; Excitatory amino acid; Enucleation; Rat; Hamster (Hartgraves, M.D. (640) 113)

Pineal; Melatonin; Pars tuberalis; Photoperiod; Photorefractory (Duncan, M.J. (640) 316)

21-Day treatment; Fluoxetine; Dorsal raphe nucleus; Serotonin overflow; Fast cyclic voltammetry; Serotonin 5-HT_{1A} autoreceptor; Serotonin 5-HT_{1B} autoreceptor (O'Connor, J.J. (640) 328)

Melatonin receptor; Light-dark cycle; Pars tuberalis; Pinealectomy; Constant darkness; Desensitization (Gauer, F. (641) 92)

Circadian rhythm; Glutamate; Electrical stimulation; MK-801; Retinohypothalamic tract (De Vries, M.J. (642) 206)

Circadian rhythm; Substance P; Glutamate; Neuronal firing (Shirakawa, T. (642) 213)

Circadian rhythm; Glia; Octanol; Halothane; Fluorocitrate; Brain slice (Prosser, R.A. (643) 296)

Circadian rhythm; Serotonin; K^+ channel; Apamin; Charybdotoxin; Protein kinase A; cAMP (Prosser, R.A. (644) 67)

Vasocative intestinal peptide; mRNA; Development; Biological clock (Glazer, R. (644) 164)

Vasoactive intestinal polypeptide; Somatostatin; Circadian rhythm; Cysteamine; Enzyme immunoassay; Rat (Fukuhara, C. (645) 343)

Circadian rhythm; NMDA; Retinohypothalamic tract; Nitric oxide (Watanabe, A. (646) 161)

Melatonin; Ground squirrel; Guinea pig; Pars tuberalis; Photoperiod (Bittman, E.L. (648) 73)

Aromatic L-amino acid decarboxylase; Immunohistochemistry; Trace amines; Sheep (Tillet, Y. (648) 319)

Serotonin; Entrainment; Circadian; Light; DPAT; Metergoline; 5-CT; NAN-190; SDZ 216-525; Propranolol; 5-HT_{1A} receptor (Ying, S.-W. (651) 37)

Neurotrophic factor; Hypothalamus; Astrocyte; Conditioned medium; Cultured neuron (Kawahara, F. (651) 101)

Hypothalamus, human; Vasopressin neuron; Circadian rhythm; Biological clock; Aging (Hofman, M.A. (651) 134)

Circadian rhythm; cAMP; Enzyme immunoassay; Rat (Yamazaki, S. (651) 329)

Bombesin; Gastrin-releasing peptide; Neuromedin B; Dorsal raphe; Periventricular; Single cell; Action potential (Pinnock, R.D. (653) 119)

Vasoactive intestinal polypeptide; Peptide histidine isoleucine; Peptide histidine valine; Cerebral cortex; Peptide processing; Vasoactive intestinal polypeptide precursor; Circadian; Mouse (Mikkelsen, J.D. (656) 95)

Serotonin; 8-Hydroxy-DPAT; Glutamate; Circadian rhythm; Microdialysis; Hamster (Srkalovic, G. (656) 302)

PER protein; Rhythm; Rat (Rosewell, K.L. (659) 231)

Circadian rhythm; Entrainment; Intergeniculate leaflet; Retinal ganglion cell (Moore, R.Y. (659) 249)

Benzodiazepine; Lateral geniculate nucleus; Locomotor activity; Neuropeptide Y (Wickland, C. (660) 293)

Ultrastructure; Astrocyte; Glial fibrillary acidic protein; Circadian rhythm; Rat (Elliott, A.S. (662) 278)

Serotonin 5-HT_{1B} receptor; 5,7-Dihydroxytryptamine; Parachlorophenylalanine; L-5-Hydroxytryptophan; Upregulation; Time course; Quantitative autoradiography; Rat (Manrique, C. (663) 93)

Circadian rhythm; Adenosine triphosphate; Anterior hypothalamic area; Caudate putamen; Rat; Metabolic activity (Yamazaki, S. (664) 237)

Supraoptic nucleus; Circadian rhythm; DNA repair; Fos; Apurinic/apymidinic endonuclease (Rivkees, S.A. (666) 137)

Anterograde neuronal tracing; Choleratoxin; Hamster; Hypothalamus; Nitric oxid synthase; NADPH-diaphorase; Retinohypothalamic tract (Decker, K. (666) 284)

Supragenual
Serotonin; Prefrontal cortex; Cingulate; Excitatory amino acid; Glutamatergic; Corticocortical; Spiperone (Read, H.L. (643) 17)

Supraoptic
Dehydration; Fos; Lamina terminalis; OVLT; Median preoptic area (McKinley, M.J. (653) 305)

Supraoptic nucleus
Nitric oxide; Paraventricular nucleus; Hyperosmotic stimulus; Stress (Villar, M.J. (644) 273)

NMDA receptor; Nitric oxide; cGMP; Heart rate; Rat (Amir, S. (645) 330)

Olfactory bulb; Preoptic nucleus; Periventricular nucleus; Paraventricular nucleus; Arcuate nucleus; Median eminence; Sympathetic activity (Vatta, M. (646) 324)

Noradrenaline; Synapse; Paraventricular nucleus of the hypothalamus; Locus ceruleus; Membrane turnover; Dopamine β-hydroxylase; Volume transmission (Aoki, C. (650) 181)

Nitric oxide; Paraventricular nucleus; Injury; Regeneration (Villar, M.J. (650) 219)

Vasopressin; Fos; Aging; Paraventricular nucleus (Sladek, C.D. (652) 207)

Angiotensin II; c-*fos*; Vasopressin; Oxytocin; Immediate early gene; Drinking behavior; Water ingestion; Gene suppression; Paraventricular nucleus (Xu, Z. (659) 157)

Paraventricular nucleus; c-*fos*; Hemorrhage; Water deprivation; Oxytocin; Vasopressin; Lactation (Fénelon, V.S. (662) 165)

Suprachiasmatic nucleus; Circadian rhythm; DNA repair; Fos; Apurinic/apymidinic endonuclease (Rivkees, S.A. (666) 137)

Supraspinal reflex
Somato-sympathetic reflex; Rostral ventrolateral medulla; Spinal reflex; Sympathetic nerve; Brain stem; Cat (Zanzinger, J. (656) 353)

Supratrigeminal
Masseter motoneuron; Bilateral inhibitory postsynaptic spike potential; Inhibitory premotor neuron; Bifurcating axon; Neurobiotin; Spike-triggered averaging; Cat (Kamogawa, H. (639) 85)

Suprochiasmatic nucleus
2-Deoxyglucose study; Hypothalamic graft (Servière, J. (655) 168)

Survival
Brain-derived neurotrophic factor; Cell culture; Dopaminergic; Rat; Human (Zhou, J. (656) 147)

SV_2
Acetylcholine; Choline-*O*-acetyltransferase; Hippocampus; Synaptic vesicle; Rat brain; Synaptophysin (Carroll, P.T. (633) 112)

SV40 large T antigen
Hippocampus; Neuronal cell line (Eves, E.M. (656) 396)

Sweating
Corticotropin-releasing factor; Peptide; Sympathetic nervous system; Sympathetic ganglion; Neurotransmitter; Chemical coding (Shafton, A.D. (652) 129)

Sweet taste
Neuropeptide Y; Lateral ventricular; Feeding; Drinking; Carbohydrate; Pattern of ingestion; Satiety (Lynch, W.C. (636) 28)

Sweet taste receptor site
Taste enhancement; Saccharin; D-Phenylalanine; Monkey chorda tympani nerve; Single fiber response (Ninomiya, Y. (635) 335)

Switching
Feeding; Nucleus accumbens; YM-09151-2; Meal patterning; Reward (Clifton, P.G. (667) 123)

Sympathectomy
Local cerebral blood flow; Local cerebral glucose utilization; N^G-Nitro-L-arginine methyl ester; Hypertension; Autoregulation (Kelly, P.A.T. (639) 309)

Neuropeptide Y; Substance P; Calcitonin gene-related peptide; Prevertebral; Ganglion (Benarroch, E.E. (644) 322)

Autoregulation; Hydrogen clearance; Blood flow (Zochodne, D.W. (649) 147)

Immunotoxin; Dopamine β-hydroxylase; Autonomic; Saporin; Noradrenaline (Picklo, M.J. (666) 195)

Sympathetic
Medulla oblongata; Vasomotor; Preganglionic neuron; Monosynaptic; Blood pressure (McAllen, R.M. (634) 227)

NADPH; Nitric oxide; Superior cervical; Colocalization; Interaction (Vanhatalo, S. (652) 107)

N-Methyl-D-aspartate; MK-801; Rhythm; Development (Sica, A.L. (665) 323)

Sympathetic activity
Olfactory bulb; Preoptic nucleus; Periventricular nucleus; Supraoptic nucleus; Paraventricular nucleus; Arcuate nucleus; Median eminence (Vatta, M. (646) 324)

Non-shivering thermogenesis; Prostaglandin E_1; Cerebral cortex; Brown adipose tissue; Oxygen consumption; Body temperature (Monda, M. (651) 148)

Sympathetic ganglion
Preganglionic neuron; Tonic activity; Neuropeptide turnover; Neuropeptide release (Maher, E. (640) 131)

Corticotropin-releasing factor; Peptide; Sympathetic nervous system; Sweating; Neurotransmitter; Chemical coding (Shafton, A.D. (652) 129)

Sympathetic nerve
Superior cervical ganglion; Major petrosal nerve; Anterograde tracing; Cochlea; Wheat germ agglutinin–horseradish peroxidase; Rat (Shibamori, Y. (646) 223)

Glucose uptake; Skeletal muscle; Guanethidine; Adrenal medulla; Ventromedial hypothalamic nucleus (Minokoshi, Y. (649) 343)

Somato-sympathetic reflex; Rostral ventrolateral medulla; Spinal reflex; Supraspinal reflex; Brain stem; Cat (Zanzinger, J. (656) 353)

Transferrin; Transthyretin; 5-Hydroxytryptamine; Choroid plexus; Meninges; Raphe nucleus; Cerebrospinal fluid (Blay, P. (662) 148)

Sympathetic nervous system
Commissural nucleus; Area postrema; Cardiovascular regulation; Sodium receptor; Vagus (Hochstenbach, S.L. (644) 233)

Angiotensin binding; Spinal cord; Intermediolateral nucleus; Dorsal root ganglion; Dorsal horn; Parasympathetic nervous system (Oldfield, B.J. (650) 40)

Corticotropin-releasing factor; Peptide; Sympathetic ganglion; Sweating; Neurotransmitter; Chemical coding (Shafton, A.D. (652) 129)

Losartan; Arterial pressure; Angiotensin II; L-Glutamate; Vasomotor neuron; Genetic hypertension (Averill, D.B. (665) 245)

Sympathetic preganglionic neuron
Glycine; GABA; Muscimol; Cardiovascular; Microinjection (Madorin, W.S. (634) 13)

Neuropeptide; Neuropeptide turnover; Stellate ganglion; Neurotensin synthesis; Neuron activity (Maher, E. (640) 126)

Oxytocin; Vasopressin (Sermasi, E. (647) 323)

Sympathetic preganglionic regulation
Acetylcholine; Superior cervical ganglion; Circadian rhythmicity; Choline acetyltransferase; Transmitter release (González Burgos, G.R. (636) 181)

Synapse
P-type calcium channel; Transmitter release; Agatoxin; Mossy fiber; Perforant fiber; Hippocampus (Yamamoto, C. (634) 349)

Vestibular; Efferent; Hair cell; Acetylcholine; Nicotinic; Labyrinth; Frog (Cochran, S.L. (642) 344)

Serotonin; Cholinergic; Tegmentum; REM sleep; PGO spike; Immunohistochemistry; Electron microscopy (Honda, T. (647) 299)

Neuromuscular; Quantum; Anandamide; Cannabinoid; cAMP (Van der Kloot, W. (649) 181)

Noradrenaline; Paraventricular nucleus of the hypothalamus; Supraoptic nucleus; Locus ceruleus; Membrane turnover; Dopamine β-hydroxylase; Volume transmission (Aoki, C. (650) 181)

Glucose transporter; Brain metabolism; Immunocytochemistry; Energy metabolism (McCall, A.L. (659) 292)

Sino-atrial node; Bradycardia; Ganglion; Nucleus ambiguus; Retrograde transport; Substance P; Ultrastructure; Vagus nerve (Massari, V.J. (660) 275)

NMDA; Cerebral cortex; Rat; Connection; Cortical slice; Visual system (Currie, S.N. (662) 103)

Periaqueductal gray; Enkephalin; GABA; Immunocytochemistry; Ultrastructure (Wang, Q.-P. (665) 39)

Frog optic tectum; In vivo whole-cell recording; Nystatin; Retinal ganglion cell; Retinotectal connection (Nakagawa, H. (665) 319)

Alzheimer's disease; Amyloid precursor protein; Mutation; Transgenic; Neuroplasticity (Mucke, L. (666) 151)

Synapse elimination
Maps formation; Cerebellum; Purkinje cell; Climbing fiber; X-irradiation; Vibrissa (Fuhrman, Y. (638) 277)

Synapse formation
Cerebellar development; Organotypic culture; Granule cell migration; Parallel fiber; Purkinje cell; Spatiotemporal pattern (Tanaka, M. (641) 319)

Chemical synapse; Electrical synapse; Conditional bursting; Cell culture; Circuit (Magoski, N.S. (645) 201)

Ca^{2+}-oscillation; Neuron; Astrocyte; Co-culture (Nakanishi, K. (659) 169)

Synapse protein
Alzheimer's disease; Lewy body disease; Hippocampal-entorhinal formation; Neuritic plaque; Confocal laser-scanning microscopy (Wakabayashi, K. (667) 24)

Synapsin 1
CaM-II; MAP-2; Spectrin; Thalamus (Scheetz, A.J. (639) 181)

Synaptic current
Neuromuscular junction; Neurotransmitter release; Potassium channel; Calcium channel (Miralles, F. (641) 279)

Antidromic activation; Autoradiography; Biocytin; Brainstem slice; Non-specific current; Neuropeptide; Oxytocin; Voltage clamp (Palouzier-Paulignan, B. (650) 117)

Synaptic inhibition
Epilepsy; Audiogenic seizure; Genetically epilepsy-prone rat; Inferior colliculus (Li, Y. (660) 232)

Synaptic integration
Mammalian central neuron; Intracellular recording; White noise; Neocortex; Hippocampus; Thalamus; Purkinje cell; Brain slice; Slice culture (Jahnsen, H. (666) 9)

Synaptic morphology
Acetyl-L-carnitine; Brain aging; Synaptic plasticity; Morphometry; Brain metabolism; Cholinergic synapse; Aging of cholinergic system (Bertoni-Freddari, C. (656) 359)

Synaptic plasticity
Acetyl-L-carnitine; Brain aging; Synaptic morphology; Morphometry; Brain metabolism; Cholinergic synapse; Aging of cholinergic system (Bertoni-Freddari, C. (656) 359)

Bradykinin; Tetrodotoxin-resistant; Primary afferent neuron sensitization; Dorsal horn; Intracellular recording; Rat (Jeftinija, S. (665) 69)

Long-term depression; Visual cortex; Metabotropic glutamate receptor (Kato, N. (665) 158)

Synaptic transmission
Adenosine; Excitatory amino acid; Hippocampus; Ischemia (Kano, T. (641) 149)

Serotonin 5-HT_3-like receptor; Hippocampus; CA1 pyramidal neuron; 2-Methyl-5-hydroxytryptamine; L-Glutamate (Zeise, M.L. (651) 337)

Afterdischarge; Excitatory amino acid; Hippocampus; Ischemia (Miyazaki, S. (657) 325)

Baclofen; Piriform cortex; Laminar selectivity; $GABA_B$ receptor; Intrinsic fiber (Tang, A.C. (659) 75)

Helix; Homosynaptic depression; Identified synapse; Opioid peptide; GABA; Naloxone (Gutiérrez, R. (667) 243)

Synaptic vesicle
Acetylcholine; Choline-*O*-acetyltransferase; Hippocampus; SV_2; Rat brain; Synaptophysin (Carroll, P.T. (633) 112)

Transmitter release; Morphometry; Vesicle hypothesis; Exocytosis; Acetylcholine; *Torpedo* electric organ; Fractal dimension (Fox, G.Q. (660) 113)

Neuromuscular junction; Miniature endplate current; Acetylcholine; Ammonium ion; pH (Prior, C. (664) 61)

Synaptogenesis
Somatic spine; Development; In vitro slice; Hippocampus; Dentate gyrus (Wenzel, J. (656) 127)

Synaptoneurosome
Status epilepticus; Hippocampus; Kainate; Hippocampal slice; Glutamate metabotropic receptor; Carbachol (Mayat, E. (645) 186)

Synaptophysin
Acetylcholine; Choline-*O*-acetyltransferase; Hippocampus; Synaptic vesicle; SV_2; Rat brain (Carroll, P.T. (633) 112)

Lewy body; Parkinson's disease; Chromogranin A; Immunohistochemistry; Immunoelectron microscopy (Nishimura, M. (634) 339)

Synaptosome
Rat cortex; Fura-2; Stopped-flow fluorometry; Funnel web spider (Thomas, M.M. (635) 9)

Dopamine synthesis; Dopamine release; Striatum; NMDA receptor (Desce, J.-M. (640) 205)

Sodium pump; Osmotic regulation (Aksentsev, S.L. (644) 1)

Nitric oxide; Glutamate; Long-term potentiation; Hippocampus; Rat (Kamisaki, Y. (644) 128)

Hippocampus; Mossy fiber; Irradiation; Amino acid release; Glutamate decarboxylase (Taupin, P. (644) 313)

Na^+,K^+-ATPase; Isozyme regulation; Ethanol; (Rat cerebral cortex) (Foley, T.D. (653) 167)

Tetrahydrobiopterin; Dopamine; PC12 cell; 6-Hydroxydopamine; Tyrosine hydroxylase; Uptake (Anastasiadis, P.Z. (665) 77)

Synergy
μ Receptor; δ Receptor; Analgesia; Nociception; Pain (Rossi, G.C. (665) 85)

Systemic
Interleukin-1; Interleukin-1ra; Tumor necrosis factor; Soluble TNF receptor; Endotoxin; Hyperalgesia; Indomethacin; Intracerebroventricular; Intrathecal; Gandolinium chloride; Kupffer cell (Watkins, L.R. (654) 15)

Systemic administration
3-Nitropropionic acid; Dopamine D_1 receptor binding; Locomotor behavior; Striatum; Mitochondrial impairment (Koutouzis, T.K. (646) 242)

Systemic blood pressure
Cerebral ischemia; L-Arginine; Nitro-L-arginine; Cerebral blood flow; Dopamine metabolism (Strasser, A. (664) 197)

T

Tabernanthine
Ibogaine; Harmaline; Coronaridine; Ibogamine; Desethylcoronaridine; Morphine; Cocaine; Drug self-administration (Glick, S.D. (657) 14)

Tachykinin
Autoradiography; 6-Hydroxydopamine; Quinolinic acid; Striatum; Substantia nigra (Stoessl, A.J. (646) 13)

Parvalbumin; Calretinin; Sensory nerve; Tooth pulp; Rat (Ichikawa, H. (647) 124)

Hypothalamus; Testosterone; Neurokinin A; Neuropeptide Y; Median eminence; Arcuate nucleus (Kalra, P.S. (653) 285)

Cytokine; Interleukin-1; Hypothalamus; Neurokinin A; Luteinising hormone; Castration (Kalra, P.S. (662) 178)

Nucleus accumbens; mRNA; Neurotensin; Novelty; Individual difference (Hooks, M.S. (663) 312)

Rat; Taste reactivity; Sodium deficiency; Salt appetite (Smith, M.E. (665) 123)

Tachykinin-related peptide
Locustatachykinin; Substance P; Immunocytochemistry; Invertebrate; *Helix pomatia* L.; Mollusc (Elekes, K. (661) 223)

Tachypneic discharge
5-Methoxy-*N*,*N*-dimethyltryptamine (5 MeODMT); Serotonin receptor; Respiratory neuron; Respiratory inhibition (Lalley, P.M. (648) 87)

Tail flick
Rostroventromedial medulla; Nociception; On-cell; Off-cell; Unanesthetized; Decerebrated (Clarke, R.W. (636) 169)

Tail-flick
Spinal opiate antinociception; Excitatory amino acid (Advokat, C. (641) 135)

Tail flick latency
Progesterone; Allopregnanolone; Steroid mechanism; Non-genomic; Neuroactivesteroid; Membrane; Nociception (Frye, C.A. (643) 194)

Tail flick reflex
Capsaicin; Descending facilitation; Descending inhibition; Spinal dorsal horn neuron (Zhuo, M. (645) 164)

Tail flick test
Intrathecal; Aging; Antinociception; Opioid receptor; Opiate agonist (Crisp, T. (643) 282)

Cocaine; Dorsal horn neuron; Pain; Spinal transection; Dopamine (Kiritsy-Roy, J.A. (644) 109)

Tailflick test
Hyperalgesia; Subcutaneous formalin; Spinal transection; Dorsolateral funiculus; NMDA; Nitric oxide; L-NAME; APV; Rat (Wiertelak, E.P. (649) 19)

Tangle
Amyloid precursor protein; Cholinesterases; Alzheimer's disease; Plaque (Geula, C. (644) 327)

Complement; Alzheimer's disease; Membrane attack complex; Ultrastructure (Itagaki, S. (645) 78)

Alzheimer's disease; Striatum; Plaque; Limbic system; Ventral striatum (Selden, N. (648) 327)

Tardive dyskinesia
Vacuous chewing movement; Neuroleptic; Dopamine; Dopamine receptor; Autoradiography (Knable, M.B. (646) 217)

Target
Retinal ganglion cell; Regeneration; Neurotrophic factor; Retinal glia; In vitro (Raju, T.R. (664) 247)

Target-derived neurotrophic factor
Cholinergic neuron; Nerve growth factor; Alzheimer's disease; Neuronal survival (Akaneya, Y. (642) 38)

Taste
Temperature sensitivity; Electrophysiological recording; Trigeminal nerve; Coolant compound (Lundy Jr., R.F. (641) 208)

Salivation; Chorda tympani; Licking; Grooming; Conditioned taste aversion; Freely moving rat (Matsuo, R. (649) 136)

Taste aversion conditioning
Nucleus of the solitary tract; Pontine parabrachial nucleus; c-Fos; Learning; Emetic drug (Swank, M.W. (636) 202)

Taste cortex
Gustatory cortex; Hamster; Inhibition; Extracellular activity; Taste stimulus (London, J.A. (666) 270)

Taste enhancement
Saccharin; D-Phenylalanine; Monkey chorda tympani nerve; Sweet taste receptor site; Single fiber response (Ninomiya, Y. (635) 335)

Taste reactivity
Rat; Tachykinin; Sodium deficiency; Salt appetite (Smith, M.E. (665) 123)

Taste stimulation
Positron emission tomography; Regional cerebral blood flow; Insular cortex; Cingulate cortex (Kinomura, S. (659) 263)

Taste stimulus
Gustatory cortex; Hamster; Inhibition; Extracellular activity; Taste cortex (London, J.A. (666) 270)

Tau
Dystrophic neurite; Paired helical filament; Argentophilia; Immunocytochemistry; Neuropathology; Alzheimer's disease (Su, J.H. (637) 37)

Glutamate; Phosphorylation; Primary neuronal culture (Sindou, Ph. (646) 124)

Calcium/calmodulin-dependent protein kinase II; Protein phosphorylation; Alzheimer's disease; Protein kinase (Simonian, N.A. (657) 294)

Tau protein
Paired helical filament; Proteolysis; Aggregation; SDS solubility; Immunogold electron microscopy (Ksiezak-Reding, H. (649) 185)

Taurine
Luteinizing hormone; Pituitary cell culture; Luteinizing hormone-releasing hormone; Mediobasal hypothalamus; Superfusion; NMDA (Arias, P. (634) 325)

Immunocytochemistry; Postmortem; GABA; Glycine; Glutamate; Retina; Glia (Pow, D.V. (653) 199)

Amino acid release; Ammonium chloride; Astrocyte; GABA; Glutamate; Hepatic encephalopathy (Albrecht, J. (660) 288)

Taxol
Cisplatin; Vincristine; Dorsal root ganglion; Nerve growth factor; Rat (Konings, P.N.M. (640) 195)

α-Sialyl cholesterol; Schwann cell; Laminin; Vincristine; Cisplatin; K-562 cell; Rat (Konings, P.N.M. (654) 118)

TBPS
Stress control; Coping; Picrotoxinin; Strychnine; Seizure; Chloride channel; Receptor binding; GABA shift; Anticonvulsant; Endogenous benzodiazepine (Drugan, R.C. (661) 127)

TBPS binding
$GABA_A$ receptor; $^{36}Cl^-$ uptake; Roman high- and low-avoidance rats; Dopamine D_1 receptor; Stress; Psychogenetic selection (Giorgi, O. (638) 13)

Tectum
Pretectal area; Torus semicircularis; Lesion; Neuropeptide Y; Frog (Kozicz, T. (635) 345)

Concanavalin A; *Rana pipiens*; Habituation; Glutamate; Nucleus isthmus (Scherer, W.J. (667) 209)

Tegmentum
Serotonin; Cholinergic; Synapse; REM sleep; PGO spike; Immunohistochemistry; Electron microscopy (Honda, T. (647) 299)

Telencephalon
CCK-B receptor; *Mastomys natalensis*; Northern hybridization; In situ hybridization; Cerebral cortex (Shigeyoshi, Y. (640) 81)

Lithium; Pilocarpine; Seizure-induced damage; Diencephalon; Rat brain damage (Bureau, Y.R.J. (648) 265)

Teleost
Melatonin; Receptor; Brain; Goldfish (Iigo, M. (644) 213)

Temperature
Fever; *Candida albicans*; Thermoregulation; Anterior hypothalamus; Fungus; Preoptic area; Microinjection; Pyrogen contamination; Brain; Rat; Intracerebral injection; Hyperthermia (Barwick, V.S. (635) 1)

Temperature control
Focal ischemia; Middle cerebral artery occlusion; Hyperthermia; Hypothalamic damage; Rat (Zhao, Q. (649) 253)

Temperature regulation
Sleep–wake regulation; Thermoregulation; Slow-wave sleep; Non-rapid eye movement sleep; Sleep cycle (Krilowicz, B.L. (668) 30)

Temperature sensitivity
Taste; Electrophysiological recording; Trigeminal nerve; Coolant compound (Lundy Jr., R.F. (641) 208)

Temporal cortex
Frontal cortex; Glutamate; AMPA; Kainate; Calcium binding protein; Parvalbumin; Glial fibrillary acidic protein (DeFelipe, J. (657) 150)

Temporalis
Oro-facial reflex; Exteroceptive suppression; Peripheral modulation; Naloxone (Schoenen, J. (657) 214)

Temporal lobe epilepsy
Hippocampus; In vitro release; Neuropeptide Y; Rat; Seizure; Sprouting (Vezzani, A. (660) 138)

Temporal processing
Odor mixture; Human psychophysics; Odor suppression (Laing, D.G. (651) 317)

Temporal region
Memory; Glutamatergic dysfunction; Glycine; HA-966; NMDA receptor (Myhrer, T. (662) 263)

Temporary deafness
Protection; Compound action potential audiogram; Olivocochlear efferent; Lignocaine; Cochlear destruction (Robertson, D. (646) 37)

Terminal ending
GABA; Hair cell; Vestibular ganglion; Immunohistochemistry (Kitahara, T. (650) 157)

Terminin
Brain; Aging; Neuron; Glia (Schipper, H.M. (635) 224)

Testosterone
Development; Frontal cortex; Estradiol; Aromatase inhibitor; Dopamine; Noradrenaline; Perinatal life (Stewart, J. (646) 157)

Lateral septum; Lateral habenular nucleus; Parental behavior; Vasopressin (Wang, Z. (650) 212)

Tachykinin; Hypothalamus; Neurokinin A; Neuropeptide Y; Median eminence; Arcuate nucleus (Kalra, P.S. (653) 285)

Quail; Photoperiod; Preoptic area; Sexual behavior (Thompson, R.R. (667) 201)

Tetracaine
Dentate gyrus; CA1; Entorhinal cortex; Hippocampus; Current source density; Inhibition (Stringer, J.L. (641) 289)

Tetradecanoyl phorbol acetate
Estrogen; Intracerebral infusion; Lordosis; Midbrain central gray; Phorbol ester; Protein kinase C; Protein kinase C inhibitor; RU486; Hypothalamic ventromedial nucleus (Kow, L.-M. (660) 241)

12-*O*-Tetradecanoylphorbol-13-acetate
Neurotoxicity; Oxidative stress; Glutathione; Anti-oxidant (Davis, J.B. (652) 169)

Tetraethylammonium
Long-term potentiation; Hippocampus; Fiber volley; 4-Aminopyridine; Presynaptic; Action potential; Potassium channel (Lærum, H. (637) 349)

Pressoreceptor; 4-Aminopyridine; Charybdotoxin (Reynolds, P.J. (665) 115)

Tetraethylammonium bromide
K^+ channel; Glibenclamide; Opioid receptor (Raffa, R.B. (650) 146)

Tetrahydro-β-carboline
Tryptophan hydroxylase; Condensation product; Dihydroxy-tetrahydroisoquinoline; Catechol structure; MPTP; MPP^+ (Matsubara, K. (655) 121)

Tetrahydrobiopterin
Dopamine; Serotonin; Tyrosine; Tryptophan; Microdialysis; Rat striatum (Tsukada, H. (635) 59)

Dopamine; Synaptosome; PC12 cell; 6-Hydroxydopamine; Tyrosine hydroxylase; Uptake (Anastasiadis, P.Z. (665) 77)

Δ^9-Tetrahydrocannabinol
MK-801; N^G-Monomethyl-L-arginine; Analgesia; Hypothermia; Tolerance; Mouse (Thorat, S.N. (667) 77)

Tetrahydroisoquinoline
1-Methyl-tetrahydroisoquinoline; Substantia nigra; Striatum; Age (Ayala, A. (638) 334)

Tetrandrine
Calcium channel; Neurohypophysis; Nerve terminal; Calcium channel blocker; Funnel-web spider toxin; ω-Conotoxin GVIA (Wang, G. (663) 215)

Tetrodotoxin
Dendritic release; Dopamine; NMDA; Substantia nigra; Pars compacta; Pars reticulata; Nomifensine (Gauchy, C. (635) 249)

Entorhinal cortex; Dentate gyrus; Pentylenetetrazol; Hippocampus; Epileptiform activity (Stringer, J.L. (636) 221)

Astrocyte; Axon; Calcium-mediated injury; Myelinated axon; Sodium channel (Waxman, S.G. (644) 197)

In vitro; Gonadotropin releasing hormone; Hypothalamus; Guinea pig; Veratridine; Calcium antagonist (Giri, M. (648) 270)

Myenteric plexus; Neurite outgrowth; Neuronal survival; Striatal neuron (Höpker, V.H. (648) 332)

Dorsal root ganglion; Sodium channel; Single sodium channel; Tetrodotoxin-resistant sodium channel (Roy, M.L. (650) 341)

Cerebral ischemia; Ion homeostasis; Anoxic depolarization; Sodium channel; Isolated perfused rat brain (Xie, Y. (652) 216)

Tetrodotoxin-resistant
Primary afferent neuron; Spinal cord neuron; Sodium channel; Excitatory transmission (Jeftinija, S. (639) 125)

Bradykinin; Primary afferent neuron sensitization; Synaptic plasticity; Dorsal horn; Intracellular recording; Rat (Jeftinija, S. (665) 69)

Tetrodotoxin-resistant sodium channel
Dorsal root ganglion; Tetrodotoxin; Sodium channel; Single sodium channel (Roy, M.L. (650) 341)

Texas red
Coexistence; Immunofluorescence; AMCA; Fluorescein isothiocyanate; GABA; Glycine (Watt, C.B. (634) 310)

THA
Medial septum; Serotonin; PA and spatial navigation; Nicotine (Riekkinen Jr., P. (662) 95)

Thalamic reticular nucleus
Dorsal lateral geniculate nucleus; Superior colliculus; Corticotectal projection; Posterior thalamic complex; Lateral posterior nucleus; Intralaminar thalamic nuclei (Deschênes, M. (664) 215)

Thalamocortical afferent
Somatosensory cortex; Calcium binding protein; Non-pyramidal neuron; Basket cell (McMullen, N.T. (660) 225)

Thalamocortical projection
Auditory cortex; Electrophysiology; Auditory-evoked potential; Horseradish peroxidase (Brett, B. (647) 65)

Thalamus
Dendrite; Electrophysiology; Intracellular filling; Somatosensory system (Havton, L.A. (638) 126)

CaM-II; MAP-2; Synapsin 1; Spectrin (Scheetz, A.J. (639) 181)

Quantitative evaluation; Electrophysiology; Dendrite; Somatosensory system (Ohara, P.T. (648) 259)

Dendrite; Electrophysiology; Intracellular filling; Somatosensory system (Havton, L.A. (651) 76)

Ca^{2+}/calmodulin-dependent protein kinase II; CaM kinase II; Cerebral cortex; Hippocampus; Basal ganglia (Ochiishi, T. (659) 179)

Mammalian central neuron; Intracellular recording; Synaptic integration; White noise; Neocortex; Hippocampus; Purkinje cell; Brain slice; Slice culture (Jahnsen, H. (666) 9)

Thapsigargin
Circadian oscillator; Melatonin; Fura-2; cAMP; Secretion (D'Souza, T. (656) 85)

Theophylline
Xanthine; Purine; Hippocampus; Baclofen; Carbamazepine; Calcium; Adenosine (Hosseinzadeh, H. (657) 300)

Thermal hyperalgesia
Prostaglandin E_2; Analgesia; Pain; M&B28767; 17-Phenyl-ω-trinor PGE_2; Central nervous system (Oka, T. (663) 287)

Thermal stimulation
Tooth; Inferior alveolar nerve; Interstimulus interval; Human (Iwata, K. (635) 211)

Afferent fiber; Hindpaw; Plantar injection; Mechanical stimulation; Pain (Fukuoka, H. (657) 133)

Thermogenesis
Dorsal raphe nucleus; Brown adipose tissue; Electrical stimulation (Dib, B. (650) 149)

Thermoreception
Pain; Nociception; Analgesia; Opiate; Pathway (Craig, A.D. (636) 233)

Thermoregulation
Fever; *Candida albicans*; Anterior hypothalamus; Fungus; Preoptic area; Temperature; Microinjection; Pyrogen contamination; Brain; Rat; Intracerebral injection; Hyperthermia (Barwick, V.S. (635) 1)

REM sleep; Acetylcholine; Sleep (Szymusiak, R. (636) 115)

CCK8 and ceruletide; PGE_1 fever; Central vs. peripheral effect; L364,718; L365,260 (Szelényi, Z. (638) 69)

Hotfoot; Neurological mutation; Development; Ataxia; Monoamine; Amphetamine; Motor behavior (Draski, L.J. (645) 69)

Preoptic/anterior hypothalamus; NREM sleep; Slow-wave sleep; EEG; Delta activity; Warming (McGinty, D. (667) 273)

Sleep–wake regulation; Slow-wave sleep; Non-rapid eye movement sleep; Temperature regulation; Sleep cycle (Krilowicz, B.L. (668) 30)

Theta
Hippocampus; Rhythmical slow activity; Electroencephalogram; Neural oscillation; Coherence; Phase; Commissural connection (Kocsis, B. (660) 341)

Theta burst stimulation
Serotonin; Long-term potentiation; NMDA receptor; GABA receptor; CA1; Hippocampal slice (Staubli, U. (643) 10)

Theta rhythm
EEG; Hippocampus; Histamine; α-Fluoromethylhistidine; Neocortex (Servos, P. (636) 98)

Cytokine; Recurrent inhibition; Interneuron; Septohippocampal; Acetylcholine (Steffensen, S.C. (652) 149)

Median raphe nucleus; Hippocampus; Excitatory amino acid; NMDA (Kinney, G.G. (654) 96)

Hippocampus; Septum; Carbachol; Atropine; Gallamine; Muscarinic M_2 receptor; Septal infusion (Monmaur, P. (656) 199)

Thiamine
Thiamine triphosphate; Chloride channel; Rat brain; Sulbutiamine (Bettendorff, L. (652) 157)

Thiamine triphosphate
Thiamine; Chloride channel; Rat brain; Sulbutiamine (Bettendorff, L. (652) 157)

Thigmotactic scanning
Sensory neglect; Spontaneous behavior; Turning; Open-field; Parkinsonism; 6-Hydroxydopamine; Neostriatum; Substantia nigra; Dopamine metabolism (Fornaguera, J. (664) 178)

Thigmotaxis
Dopamine; Striatum; Edge; Open field; Neglect; 6-Hydroxydopamine lesion; Rotational behavior; Asymmetry (Sullivan, R.M. (637) 114)

Thiobarbituric acid-reacting substance
6-Hydroxydopamine; Lipid peroxidation; Superoxide dismutase; Cu/Zn-SOD mRNA (Ogawa, N. (646) 337)

Thiobarbituric acid-reactive substance
Methylprednisolone; Cell culture; Antioxidant; Na^+,K^+-ATPase (Anderson, D.K. (637) 119)

Thioperamide
Hypothalamic neuronal histamine; Feeding circadian rhythm; Reduction of circadian amplitude; Light–dark cycle; Histamine H_1 receptor; α-Fluoromethylhistidine (Doi, T. (641) 311)

Thioredoxin
ADF; Glutathione; Glial cell; Neuronal cell death (Hori, K. (652) 304)

THIP
Baclofen; Bicuculline methiodide; Enkephalin; Estrogen; γ-Aminobutyric acid; $GABA_A$ receptor; $GABA_B$ receptor; Lordosis; Tonic inhibition; Ventromedial nucleus of hypothalamus (Ogawa, S. (666) 239)

Third ventricle
Neuropeptide Y; Galanin; cAMP; Paraventricular nucleus; Arcuate nucleus (Akabayashi, A. (660) 323)

Thirst
Cellular dehydration; Angiotensin II; Losartan; Brain sodium concentration; Cattle; Sheep; Rabbit; Rat; Mouse (Blair-West, J.R. (637) 335)

2-Deoxyglucose; Pigeon; Subfornical organ; Water deprivation (Heuston, K. (654) 331)

Three-dimensional reconstruction
Noradrenaline; Human; Brain; Alcohol (Arango, V. (650) 1)

Threshold
Spasticity; Hemiplegia; Motor control; Stretch reflex (Levin, M.F. (657) 23)

Thrombin
Protease-nexin-1; Blood vessel; Blood–brain barrier; Alzheimer's disease; Cerebrovascular injury (Vaughan, P.J. (668) 160)

Thrombolytic therapy
Recombinant tissue plasminogen activator; Stroke; Rat; Cerebral blood flow; Hypothermia; Hyperthermia; Cerebral ischemia (Meden, P. (647) 131)

Thromboxane
Schwann cell; Prostanoid; Prostaglandin; Inflammation (Constable, A.L. (635) 75)

Thymectomy
Learning and memory; Immune response; Monoamines; Choline acetyltransferase activity (Zhang, Y. (658) 127)

Thyroid hormone
Thyroxine; Triiodothyronine; Hypothyroidism; Hyperthyroidism; Tricyclic antidepressant; Desmethylimipramine; Deiodination (Gordon, J.T. (634) 96)

Hippocalcin; Growth hormone; Snell dwarf mouse; Immunohistochemistry (Sugisaki, T. (665) 101)

Thyroid hormone metabolism
Fluoxetine; Deiodinase; Rat; Brain (Baumgartner, A. (635) 68)

Thyrotropin-releasing hormone
Hyperactivity; Dopamine turnover; Nucleus accumbens; Vagotomy (Ogawa, N. (633) 167)

Radioimmunoassay; Radioenzymatic assay; Wobbler mouse motoneuron disease; Cervical spinal cord; Acetylcholinesterase; Choline acetyltransferase; Substance P; Methionine-enkephalin; Leucine-enkephalin (Yung, K.K.L. (638) 337)

Paraventricular nucleus; Gastric contractility; Vagotomy (Morrow, N.S. (644) 243)

Kindling; Carbamazepine; Tolerance; Hippocampus; Entorhinal cortex; Pyriform cortex; Perirhinal cortex; mRNA; In situ hybridization (Rosen, J.B. (651) 252)

5,7-Dihydroxytryptamine; Serotonin; Monosynaptic reflex; Spinal cord; Neonatal rat (Deshpande, S.B. (655) 263)

Excitatory amino acid neurotransmitter; Neocortex; NMDA; Intracellular recording; In vitro (Kasparov, S. (656) 229)

Neuromodulation; Resting K^+ conductance; Phorbol ester; Protein kinase C; IP_3; BAPTA; EGTA; Intracellular calcium; Forskolin; Adenylate cyclase (Bayliss, D.A. (668) 220)

Thyrotropin releasing hormone
Raphe pallidus; Dorsal vagal complex; Gastric motility; Glutamate; Rat (Garrick, T. (636) 343)

Thyroxine
Thyroid hormone; Triiodothyronine; Hypothyroidism; Hyperthyroidism; Tricyclic antidepressant; Desmethylimipramine; Deiodination (Gordon, J.T. (634) 96)

Tiagabine
GABA uptake carrier; Autoradiography; Receptor (Suzdak, P.D. (647) 231)

Substantia nigra pars reticulata; Brain slice; GABA; $GABA_A$ receptor; $GABA_B$ receptor; CGP 55845A (Rick, C.E. (659) 133)

Tianeptine
Spatial memory; Radial arm maze; Hippocampus; Stress; Phenytoin (Luine, V. (639) 167)

Tibial nerve
c-*fos*; Dorsal horn; Somatotopy; Peripheral nerve injury; Peroneal nerve (Sugimoto, T. (642) 348)

TIDA
Arcuate nucleus; Dopamine; Double-labeling; Electron microscopy; Galanin; Hypothalamus; Immunocytochemistry; Interaction; Tyrosine hydroxylase (Hrabovszky, E. (652) 49)

Dopamine; Morphine; Haloperidol; Norepinephrine; Apomorphine; Luteinizing hormone; Prolactin; Tuberoinfundibular (He, J.-R. (653) 1)

Time course
Serotonin 5-HT_{1B} receptor; 5,7-Dihydroxytryptamine; Parachlorophenylalanine; L-5-Hydroxytryptophan; Upregulation; Quantitative autoradiography; Suprachiasmatic nucleus; Rat (Manrique, C. (663) 93)

Time dependent scatter diagram
Non-stationary point process; Functional connectivity; Correlation technique (Hamada, Y. (660) 209)

Tinel sign
Mechanoreceptor; Neuroma; Nerve injury; Myelinated fiber; Degeneration (Koschorke, G.-M. (641) 99)

Tirilazad mesylate
Focal cerebral infarction; Neurologic deficit; Lipid peroxidation; Neuroprotection; Penumbra (Park, C.K. (645) 157)

21-Aminosteroid; Prostaglandin; Leukotriene (Andrus, P.K. (659) 126)

Tissue culture
Dopamine neuron; GM1 ganglioside; MPTP; Substantia nigra; Tyrosine hydroxylase (Stull, N.D. (640) 308)

Programmed cell death; Protooncogene; Neuron; Glia; Immunocytochemistry; Immunoblotting (Mizuguchi, M. (649) 197)

Dopamine neuron; Substantia nigra; DiI; Flow cytometry; Fluorescence-activated cell sorting (Kerr, C.W. (665) 300)

α-Tocopherol
Lipofuscin; Free radical; Aging; Brain; Rat (Monji, A. (634) 62)

Brain; Hypoxia; Na^+,K^+-ATPase; Lipid peroxidation (Shin, S.M. (653) 45)

Tolerance
Accumbens; Catalepsy; Dopamine; GABA; Haloperidol; Microdialysis; Neostriatum (Osborne, P.G. (634) 20)

Dizocilpine; MK-801; U-50,488H; κ Opioid receptor agonist; Analgesia (Bhargava, H.N. (649) 111)

Kindling; Thyrotropin-releasing hormone; Carbamazepine; Hippocampus; Entorhinal cortex; Pyriform cortex; Perirhinal cortex; mRNA; In situ hybridization (Rosen, J.B. (651) 252)

MK-801; N^G-Monomethyl-L-arginine; Δ^9-Tetrahydrocannabinol; Analgesia; Hypothermia; Mouse (Thorat, S.N. (667) 77)

Chronic κ-agonist treatment; Antinociception; G protein; Low K_m GTPase; Protein kinase C (Feng, Y. (667) 133)

Toluene
Dentate gyrus; Olfaction; Fast wave; Slow wave; Noxious stimulation; Rat; Scopolamine (Heale, V.R. (652) 235)

Hippocampal slice; Neurotransmission; Excitation; Inhibition (Ikeuchi, Y. (664) 266)

Tonic activity
Preganglionic neuron; Sympathetic ganglion; Neuropeptide turnover; Neuropeptide release (Maher, E. (640) 131)

Tonic inhibition
$GABA_A$ receptor; $GABA_B$ receptor; Tuberoinfundibular dopaminergic neuron; SR 95531; Prolactin (Wagner, E.J. (659) 194)

Baclofen; Bicuculline methiodide; Enkephalin; Estrogen; γ-Aminobutyric acid; $GABA_A$ receptor; $GABA_B$ receptor; Lordosis; THIP; Ventromedial nucleus of hypothalamus (Ogawa, S. (666) 239)

Tonic vasomotor center
Epinephrine neuron; Alzheimer's disease; Lysosomal enzyme (Burke, W.J. (661) 35)

Tonotopic
Auditory cortex; Event-related field; Neuromagnetism; Magnetic source imaging; Interstimulus interval (Cansino, S. (663) 38)

Tonotopic organization
Auditory development; Inferior colliculus; Epilepsy; Audiogenic seizure; c-Fos (Pierson, M. (636) 55)

Tooth
Thermal stimulation; Inferior alveolar nerve; Interstimulus interval; Human (Iwata, K. (635) 211)

Tooth pulp
Parvalbumin; Calretinin; Tachykinin; Sensory nerve; Rat (Ichikawa, H. (647) 124)

Topographical projection
Septohippocampal system; Fimbria-fornix; Supracallosal stria; Retrograde tracing; Fluorescent dye (Peterson, G.M. (646) 129)

Topography
Dorsal column nucleus; Neurotrophic factor; Primary afferent; Somatosensory (Foschini, D.R. (646) 1)

***Torpedo* electric organ**
Synaptic vesicle; Transmitter release; Morphometry; Vesicle hypothesis; Exocytosis; Acetylcholine; Fractal dimension (Fox, G.Q. (660) 113)

Torus longitudinalis
Kainic neurotoxicity; Goldfish optic tectum; NMDA receptor; Excitatory input (Migani, P. (637) 313)

Torus semicircularis
Pretectal area; Tectum; Lesion; Neuropeptide Y; Frog (Kozicz, T. (635) 345)

Total tissue electrolyte
Brain; pH regulation; Extracellular pH; Intracellular pH; Hypercapnia; Extracellular electrolyte (Katsura, K.-i. (651) 47)

Toxicity
Cocaine; Benzoylecgonine; Neuroblastoma; Glioma; Neuron; Glia; Cytotoxicity; Morphology (Lin, Y. (643) 108)

Amyloid; Alzheimer's disease; β-Amyloid peptide; Pheochromocytoma cell (Fukuyama, R. (667) 269)

Trace amines
Aromatic L-amino acid decarboxylase; Suprachiasmatic nucleus; Immunohistochemistry; Sheep (Tillet, Y. (648) 319)

Tract tracing
Retina; Dorsal raphe nucleus; Periaqueductal gray; Serotonin; Sleep; Wakefulness; Circadian rhythm (Shen, H. (635) 159)

Transcranial magnetic stimulation
Human motor system; Handedness; Asymmetry; Motor evoked potential (Triggs, W.J. (636) 270)

Transcription
Gene expression; GAP-43; Stable transfectant; H-DNA (Starr, R.G. (638) 211)

Transcription factor
Brain; Hippocampus; Regulatory protein; c-*fos*; c-*jun*; Seizure; Metrazole; CREB; Sensory cortex; Limbic cortex; Cerebellum; Gel-shift; EMSA; Supershift (Łukasiuk, K. (643) 227)

CREB; Somatostatin; Neocortex; Development; In situ hybridization; Immunocytochemistry (Imaki, J. (651) 269)

Activator protein-1; Ischemia; CA1 subfield; Vulnerability; Apoptosis (Yoneda, Y. (667) 54)

Transduction
Olfaction; Adaptation; Chemoreception; Lobster; *Panulirus* (Daniel, P.C. (643) 136)

Vertebrate rod photoreceptor; cGMP renewal; Slowing of kinetics; Outer segment; Aging (Leibovic, K.N. (653) 325)

Transendothelial potential difference
Blood–brain barrier; Ion permeability; Rat pial microvessel (Revest, P.A. (652) 76)

$\alpha_4\beta_2$-Transfected fibroblast
Nicotinic acetylcholine receptor; Human; Rat; Brain; Calcium (Court, J.A. (667) 118)

Transfer kindling
Kindling; Epilepsy; Entorhinal cortex; Perforant path; Dentate gyrus; Neural plasticity (Spiller, A.E. (635) 130)

Kindling; Epilepsy; Entorhinal cortex; Perforant path; Dentate gyrus; Neural plasticity (Spiller, A.E. (635) 139)

Transferrin
Neurotrophic factor; Hippocampus; Cerebellum; Myelin; Iron; Neurodevelopment (Dickinson, T.K. (635) 169)

Aluminum neurotoxicity; Alzheimer's disease; Neurodegenerative disorder; Iron-binding protein; Lactoferrin (Leveugle, B. (650) 20)

Axonal transport; Basal ganglia; Ferritin; Iron; Manganese; Neurotoxicity; Parkinson's disease (Sloot, W.N. (657) 124)

Transthyretin; 5-Hydroxytryptamine; Choroid plexus; Meninges; Sympathetic nerve; Raphe nucleus; Cerebrospinal fluid (Blay, P. (662) 148)

Transformed mitochondrion
Gomori glia; Peroxidase; Residual body; Autophagosome; Iron (Brawer, J.R. (633) 9)

Transforming growth factor-α
Epidermal growth factor; Receptor; Medial septum; Neuron; Astrocyte; Oligodendrocyte; Microglia (Mazzoni, I.E. (656) 115)

Transforming growth factor-β
Neuronal survival; Neurite sprouting; Process elongation; Hippocampal neuron; Cell culture (Ishihara, A. (639) 21)

Transforming growth factor β-2
Neurotrophin; Glia; Proliferation; Trk receptor (Ikeda, T. (649) 260)

Transgenic
Alzheimer's disease; Amyloid precursor protein; Mutation; Synapse; Neuroplasticity (Mucke, L. (666) 151)

Transgenic astrocyte
Nerve growth factor; Adrenal chromaffin cell; Transplantation; Parkinson's disease (Cunningham, L.A. (658) 219)

Transgenic mouse
Learning and memory; Genetics (Paylor, R. (651) 275)

Superoxide dismutase; Methylenedioxyamphetamine; Methylenedioxymethamphetamine; Lethality; Free radical (Cadet, J.L. (655) 259)

Monoamine oxidase B; MPTP; Dopamine; DOPAC; Tyrosine hydroxylase; Substantia nigra (Andersen, J.K. (656) 108)

Focal brain ischemia; Immediate early gene; c-fos mRNA; Oxygen-free radicals; Superoxide dismutase (Kamii, H. (662) 240)

Transient cerebral ischemia
Blood–cerebrospinal fluid barrier; Magnetic resonance imaging; Gadolinium-diethylene triamine pentacetic acid (Nagahiro, S. (633) 305)

Transient forebrain ischemia
Development; Gerbil hippocampus; Heat-shock protein 70; Delayed neuronal death; Central nervous system (Soriano, M.A. (653) 191)

Transmitter
Hair cell; Non-NMDA receptor; Modulator; Vestibular; Invertebrate (Tu, Y. (642) 47)

Transmitter release
Synapse; P-type calcium channel; Agatoxin; Mossy fiber; Perforant fiber; Hippocampus (Yamamoto, C. (634) 349)

Acetylcholine; Superior cervical ganglion; Sympathetic preganglionic regulation; Circadian rhythmicity; Choline acetyltransferase (González Burgos, G.R. (636) 181)

Nitric oxide; Cyanide; Hypoxia; NMDA receptor; Excitotoxicity (Akira, T. (645) 285)

Parathyroid hormone; Calcitonin; Acetylcholine; Superior cervical ganglion; Choline acetyltransferase (Stern, J.E. (650) 267)

Nitric oxide; NMDA receptor; Excitotoxicity; Hippocampal slice (Akira, T. (652) 190)

Synaptic vesicle; Morphometry; Vesicle hypothesis; Exocytosis; Acetylcholine; *Torpedo* electric organ; Fractal dimension (Fox, G.Q. (660) 113)

Transmitter uptake
Immunocytochemistry; Autoradiography; Neuropeptide; Classical transmitter; Colocalization (Watt, C.B. (634) 317)

Transplant
Olfactory bulb; Astrocyte; Ensheathing cell; Laminin; Glia limitans (Doucette, R. (649) 334)

Transplantation
Olfaction; Sensory; Olfactory marker protein; Regeneration; Reinnervation; Cerebral cortex; Olfactory nerve (Hendricks, K.R. (648) 135)

Graft; Striatum; Corticostriatal afferent; Postsynaptic response (Labandeira-Garcia, J.L. (652) 87)

Nerve growth factor; Transgenic astrocyte; Adrenal chromaffin cell; Parkinson's disease (Cunningham, L.A. (658) 219)

Immediate early gene; *c-fos*; Prefrontal cortex; Dopamine agonist; Intracerebral neural grafting; Embryonic ventral mesencephalon (Cenci, M.A. (665) 167)

Transport
Brain; Blood–brain barrier; Permeability; Amino acid; α-Aminoisobutyric acid; Perfusion in situ (Ennis, S.R. (643) 100)

Transporter
Uptake; Dopamine; Serotonin; Fetal; Rat; Monoamine; Development (Hyde, C.E. (646) 118)

Transport reversal
Nerve; Protein transport; Organelle transport; Reversal time (Snyder, R.E. (635) 49)

Transsynaptic modulation
Cholinergic septo-hippocampal system; High-affinity choline uptake; Noradrenergic drug; α-Adrenoceptor; Mouse (Marighetto, A. (652) 120)

Transthyretin
Transferrin; 5-Hydroxytryptamine; Choroid plexus; Meninges; Sympathetic nerve; Raphe nucleus; Cerebrospinal fluid (Blay, P. (662) 148)

Trauma
Human astrocyte culture; Interleukin-6; Cytokine (Hariri, R.J. (636) 139)

NMDA receptor; Receptor-binding; [^{3}H]MK801; Spinal cord injury (Sun, F.-Y. (666) 88)

Magnesium; Nuclear magnetic resonance; Bioenergetics; Treatment (Golding, E.M. (668) 46)

Traumatic brain injury
Electroencephalography; Excitatory amino acid; Glutamate; Aspartate; Rat; Secondary ischemia; Seizure activity (Nilsson, P. (637) 227)

[^{3}H]QNB binding; Homogenate; Hippocampus; Neocortex; Brainstem; Cerebellum; Fluid percussion (Lyeth, B.G. (640) 240)

Quinuclidinylbenzilate; Receptor binding; Homogenate; Hippocampus; Brainstem; Neocortex; Fluid percussion (Jiang, J.Y. (651) 123)

Fluid percussion; AFDX384; Acetylcholine; Pirenzipine; Autoradiography; Hippocampus; Receptor binding (DeAngelis, M.M. (653) 39)

Protein kinase C; Phorbol ester; NMDA receptor; MK-801; Brain (Sun, F.-Y. (661) 63)

Treatment
Nerve growth factor; Neuropathy; Rat (Apfel, S.C. (634) 7)

Magnesium; Nuclear magnetic resonance; Trauma; Bioenergetics (Golding, E.M. (668) 46)

Tremor
Myelin; Myelin deficiency; Demyelination; Multiple sclerosis; Seizure; Cerebellum (Rosenbluth, J. (650) 85)

TRH
Cell line; Neuroblastoma; IMR32 pyroglutamyl-glutamyl-prolineamide; Neuron; Differentiation (Rondeel, J.M.M. (665) 262)

Triazolam
Activity; Circadian rhythm; Hamster; Intergeniculate leaflet; Nonphotic; Phase shift (Janik, D. (651) 174)

Tricyclic antidepressant
Thyroid hormone; Thyroxine; Triiodothyronine; Hypothyroidism; Hyperthyroidism; Desmethylimipramine; Deiodination (Gordon, J.T. (634) 96)

Triethyltin sulfate
Glial fibrillary acidic protein; Glial fibrillary acidic protein; Developmental neurotoxicology; Spatial delayed alternation (Freeman Jr., J.H. (634) 85)

Trigeminal
Neurotrophin; Primary afferent; Immunocytochemistry; Glomerulus; Ultrastructure (Henry, M.A. (642) 137)

Trigeminal ganglion
Parvalbumin; Carbonic anhydrase; Calretinin; Dorsal root ganglion; Rat (Ichikawa, H. (655) 241)

Axotomy; Inferior alveolar nerve; Neuropeptide Y; Trigeminal sensory nuclear complex; Rat (Sasaki, Y. (664) 108)

Reeler mutant mouse; Neurological mutant mouse; Migration; Motor trigeminal nucleus; Neural crest (Terashima, T. (666) 31)

Trigeminal nerve
Temperature sensitivity; Taste; Electrophysiological recording; Coolant compound (Lundy Jr., R.F. (641) 208)

Trigeminal nerve fiber
Junctional epithelium; Di-I; Retrograde axonal transport; Epithelial permeability (Sugaya, A. (653) 330)

Trigeminal premotoneuron
Excitatory amino acid; Brainstem; Mastication; Reticular formation (Turman Jr., J.E. (634) 49)

Trigeminal sensory nuclear complex
Axotomy; Inferior alveolar nerve; Neuropeptide Y; Trigeminal ganglion; Rat (Sasaki, Y. (664) 108)

Trigeminal spinal caudal subnucleus
Fos; Parabrachial nucleus; Fluoro-Gold; Immunocytochemistry; Double labeling; Formalin; Rat (Wang, L.G. (649) 62)

Triiodothyronine
Thyroid hormone; Thyroxine; Hypothyroidism; Hyperthyroidism; Tricyclic antidepressant; Desmethylimipramine; Deiodination (Gordon, J.T. (634) 96)

3,5,3'-L-Triiodothyronine
Embryonic brain; Septum pellucidum; Neuron survival; Axon elongation; Primary culture (Filipčik, P. (647) 148)

Triple immunofluorescence labeling
Dual-peroxidase staining; Glia; Extracellular matrix; *Wisteria floribunda* agglutinin; Chondroitin sulfate proteoglycan; Cortex; Rat (Härtig, W. (635) 307)

Triple labeling method
Medulla; Nucleus accumbens; Tyrosine hydroxylase; Horseradish peroxidase; Fos; Stress response; Rat (Jin, G.R. (648) 196)

Trisomy
Acetylcholine; Nervous system (Fiedler, J.L. (658) 27)

Trisomy 21
Action potential; Membrane current; Down's syndrome; Dorsal root ganglion; Nerve growth factor; Trisomy 16 mouse (Coan, E.J. (650) 161)

Trisomy 16 mouse
Action potential; Membrane current; Down's syndrome; Dorsal root ganglion; Nerve growth factor; Trisomy 21 (Coan, E.J. (650) 161)

TrkA
PC12 cell; Nerve growth factor; Neuronal differentiation; Tyrosine phosphorylation (Yamada, M. (661) 137)

TrkB
Calcium; Excitotoxicity; Fura-2; Neurotrophin; Tyrosine kinase; TrkC (Cheng, B. (640) 56)

TrkC
Calcium; Excitotoxicity; Fura-2; Neurotrophin; Tyrosine kinase; TrkB (Cheng, B. (640) 56)

Trk receptor
Neurotrophin; Transforming growth factor β-2; Glia; Proliferation (Ikeda, T. (649) 260)

Trolox
Nitric oxide; Peroxynitrite; Lipid peroxidation; Mitochondrion (Heales, S.J.R. (668) 243)

Trophic effect
Spinal cord graft; Skeletal muscle graft; Intraocular transplantation (Trok, K. (659) 138)

Trout
Angiotensin II; Arginine-vasotocin; Neuropeptide; Central nervous system; Heart rate; Blood pressure; Angiotensin AT_1 receptors (Le Mevel, J.-C. (654) 216)

Tryptophan
Tetrahydrobiopterin; Dopamine; Serotonin; Tyrosine; Microdialysis; Rat striatum (Tsukada, H. (635) 59)

Suprachiasmatic nucleus; Serotonin; 8-Hydroxy-DPAT; Buspirone; NAN-190; Fos; Light; Circadian rhythm; Hamster (Glass, J.D. (638) 235)

ACTH; Corticosterone; Norepinephrine; Newcastle disease virus; Serotonin (Dunn, A.J. (645) 103)

Tryptophan hydroxylase
Condensation product; Dihydroxy-tetrahydroisoquinoline; Tetrahydro-β-carboline; Catechol structure; MPTP; MPP^+ (Matsubara, K. (655) 121)

Tuberoinfundibular
TIDA; Dopamine; Morphine; Haloperidol; Norepinephrine; Apomorphine; Luteinizing hormone; Prolactin (He, J.-R. (653) 1)

Tuberoinfundibular dopaminergic neuron
Prolactin; Microdialysis; Characterisation (Timmerman, W. (657) 275)

$GABA_A$ receptor; $GABA_B$ receptor; SR 95531; Tonic inhibition; Prolactin (Wagner, E.J. (659) 194)

α1-Tubulin
Gene expression; Growth-associated gene; GAP-43; Stathmin; p19; MAP2; Plasticity; Brain; Neuron; In situ hybridization (Himi, T. (655) 177)

β-Tubulin
Neurofilament gene expression; Regeneration; Dorsal root ganglion; Axotomy (Jiang, Y.Q. (637) 233)

Tumor necrosis factor
Interleukin-1; Nervous inhibition; Na-pump; Molluscan neuron (Mimura, Y. (653) 112)

Adult human; Astrogliosis; Cytokine; Interferon; Interleukin; Proliferation (Tejada-Berges, T. (653) 297)

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Mycoplasma; Nitric oxide; Prostaglandin E_2; Glial cell; Dexamethasone; Multiple sclerosis; AIDS dementia (Brenner, T. (641) 51)

Tumor necrosis factor-α
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Tumor necrosis factor receptor
Tumor necrosis factor-α; Cultured hippocampal neuron; Miniature synaptic current; Spontaneous synaptic activity (Grassi, F. (659) 226)

Turning
Sensory neglect; Spontaneous behavior; Thigmotactic scanning; Open-field; Parkinsonism; 6-Hydroxydopamine; Neostriatum; Substantia nigra; Dopamine metabolism (Fornaguera, J. (664) 178)

Turnover
Morphine; Norepinephrine; Dopamine; Hypothalamus; Preoptic area (Vathy, I. (662) 209)

Turtle
Vitamin D receptor; Steroid hormone; Central nervous system; Choroid plexus; Reptilia; Autoradiography (Bidmon, H.-J. (640) 277)

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Turtle olfactory response
Nonvolatile substance; Gustatory stimuli; Salt; Acid; Bitter substance (Shoji, T. (666) 68)

Two-dimensional gel electrophoresis
Ca^{2+}/calmodulin-dependent protein kinase II; cAMP-dependent protein kinase; Protein phosphorylation; Endogenous substrate; Brain development (Sugiura, H. (659) 42)

Tyramine
Octopamine; Binding; Receptor; Insect; Brain (Hiripi, L. (633) 119)

Tyrosine
Nigrostriatal neuron; Dopamine; Tyrosine hydroxylase; Juvenile-onset diabetes; Parkinson's disease; Psychosis; BB Wistar rat (Kono, T. (634) 155)

Tetrahydrobiopterin; Dopamine; Serotonin; Tryptophan; Microdialysis; Rat striatum (Tsukada, H. (635) 59)

Dopamine; Development (Santana, C. (635) 96)

Acid phosphatase; Low molecular weight; Phosphorylation; Epidermal growth factor receptor; Brain; Alzheimer's disease (Shimohama, S. (662) 185)

Tyrosine hydroxylase
Rostral ventrolateral medulla; Biocytin; Intracellular electrophysiology; Cardiovascular control; Respiratory control (Pilowsky, P. (633) 63)

Neural transplantation; Dopamine; Noradrenaline; 6-Hydroxydopamine; Fiber outgrowth (Nikkhah, G. (633) 133)

Substantia nigra; Dopamine; Haloperidol; In situ hybridization; Immunohistochemistry (Stork, O. (633) 213)

Central amygdaloid nucleus; Bed nucleus of the stria terminalis; Substantia innominata; Norepinephrine; Dopamine β-hydroxylase (Freedman, L.J. (633) 243)

Nigrostriatal neuron; Dopamine; Tyrosine; Juvenile-onset diabetes; Parkinson's disease; Psychosis; BB Wistar rat (Kono, T. (634) 155)

Dopamine; Dihydroxyphenylacetic acid; Prolactin; Gender difference; Hamster (Krajnak, K. (634) 159)

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Proteoglycan; Heparan sulfate; Basic fibroblast growth factor; Immunocytochemistry; Coexistence; Brain (Fuxe, K. (636) 131)

Spinal trigeminal nucleus; Rostral ventrolateral medulla; Arterial pressure; c-*fos*; Nasopharyngeal reflex (Gieroba, Z.J. (636) 157)

Protein phosphatase 2A; Protein kinase A (Berresheim, U. (637) 273)

2-Methyl-1,2,3,4-tetrahydroisoquinoline (2-MTIQ); C57BL/6J mouse; Substantia nigra; Locus ceruleus; Parkinsonism (Fukuda, T. (639) 325)

Dopamine neuron; GM1 ganglioside; MPTP; Substantia nigra; Tissue culture (Stull, N.D. (640) 308)

Noradrenaline; Adrenaline; Immunohistochemistry; Aging; Phenylethanolamine-*N*-methyltransferase; Brainstem; Sprague–Dawley rat (Monji, A. (641) 171)

Retrograde degeneration; Substantia nigra pars compacta; Excitotoxin; Striatum; Cell size (Lundberg, C. (644) 205)

Estrogen; Medial preoptic area; Medial preoptic nucleus; Rat (Yuri, K. (645) 278)

Electron microscopy; Immunohistochemistry; Substantia nigra; Basal ganglia; Ultrastructure; Double labeling (Karle, E.J. (646) 149)

Medulla; Nucleus accumbens; Horseradish peroxidase; Fos; Triple labeling method; Stress response; Rat (Jin, G.R. (648) 196)

Methamphetamine; Amfonelic acid; Astrocyte; Neurotoxicity (Pu, C. (649) 217)

Arcuate nucleus; Dopamine; Double-labeling; Electron microscopy; Galanin; Hypothalamus; Immunocytochemistry; Interaction; TIDA (Hrabovszky, E. (652) 49)

Pituitary adenylate cyclase activating polypeptide; Prolactin; Median eminence; Striatum; Lactation; Ovariectomized; Dopamine (Arbogast, L.A. (655) 17)

Catecholamine; Locus ceruleus; Macaque monkey; Substantia nigra (Lewis, D.A. (656) 1)

Monoamine oxidase B; Transgenic mouse; MPTP; Dopamine; DOPAC; Substantia nigra (Andersen, J.K. (656) 108)

Adult cat; Carotid body; Cell culture; Defined medium; Dopamine; Hypoxia; Immunohistochemistry (Shirahata, M. (658) 60)

Olfactory bulb; Dopamine; Enkephalin; Neuronal culture; Naloxone; Nimodipine (McMillian, M.K. (658) 105)

Aminotetralin; Autoreceptor; D_2; D_3; Dopamine; 7-OH-DPAT; (±)-7-Hydroxy-*N*,*N*-dipropylaminotetralin; Receptor (Booth, R.G. (662) 283)

Tetrahydrobiopterin; Dopamine; Synaptosome; PC12 cell; 6-Hydroxydopamine; Uptake (Anastasiadis, P.Z. (665) 77)

Calcium-binding protein; Mesencephalon; Parkinson's disease; Human (Mouatt-Prigent, A. (668) 62)

Ventral tegmental area; Substantia nigra; Hippocampal formation; Mesolimbic dopaminergic system; Fluoro-Gold (Gasbarri, A. (668) 71)

Striatal graft; Allograft; Cell fate; Huntington's disease; Neuronal regeneration; DARPP-32; Calbindin; Acetylcholinesterase (Deacon, T.W. (668) 211)

Chronic cocaine; N_1 amplitude-intensity function; N_1 latency-intensity function (Shivapuja, B.G. (668) 230)

Tyrosine kinase
Calcium; Excitotoxicity; Fura-2; Neurotrophin; TrkB; TrkC (Cheng, B. (640) 56)

Growth cone; Axon; Actin; Cell motility (Smalheiser, N.R. (660) 309)

Basic fibroblast growth factor; Neurite branching; Neurite elongation; Protein kinase C; Cultured hippocampal neuron (Aoyagi, A. (661) 117)

Tyrosine phosphorylation
PC12 cell; Nerve growth factor; Neuronal differentiation; TrkA (Yamada, M. (661) 137)

U

U50488H
Morphine; DPDPE; Opioid; Dopamine D_2 receptor; Striatum; Nucleus accumbens; Guinea pig (Brent, P.J. (654) 191)

U-50,488H
Dizocilpine; MK-801; κ Opioid receptor agonist; Analgesia; Tolerance (Bhargava, H.N. (649) 111)

U69,593
NMDA antagonist; MK-801; NPC 12626; Opiate analgesia; κ Opioid receptor; μ Opioid receptor; Naloxone; Norbinaltorphimine (Saucier, D.M. (637) 292)

U73122
Phospholipase C; Bradykinin; NG108-15; Dorsal root ganglion neuron; Intracellular calcium (Jin, W. (642) 237)

Ubiquitin
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Ultracytochemistry
Guanylate cyclase; Rat atrial natriuretic factor; Porcine brain natriuretic peptide; Neurohypophysis; Rat (Rambotti, M.G. (644) 52)

Ultrastructure
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Electron microscopy; Immunohistochemistry; Substantia nigra; Tyrosine hydroxylase; Basal ganglia; Double labeling (Karle, E.J. (646) 149)

Apoptosis; Cell death; Cortical neuron; DNA fragmentation (Takei, N. (652) 65)

Sino-atrial node; Bradycardia; Ganglion; Nucleus ambiguus; Retrograde transport; Substance P; Synapse; Vagus nerve (Massari, V.J. (660) 275)

Apoptosis; β-Amyloid; Neuron; Cell culture (Watt, J.A. (661) 147)

Astrocyte; Glial fibrillary acidic protein; Circadian rhythm; Suprachiasmatic nucleus; Rat (Elliott, A.S. (662) 278)

Periaqueductal gray; Enkephalin; GABA; Immunocytochemistry; Synapse (Wang, Q.-P. (665) 39)

Unanesthetized
Rostroventromedial medulla; Nociception; Tail flick; On-cell; Off-cell; Decerebrated (Clarke, R.W. (636) 169)

Undernutrition
Argyrophilic nucleolar region; Postnatal development; Mammillary body; Rat (González-Pardo, H. (654) 75)

Unilateral enucleation
Histamine H_3 receptor; Receptor autoradiography; Neuronal plasticity; Visual system; Superior colliculus (Nakagawa, Y. (643) 74)

Unit activity
Male sexual behavior; Medial preoptic area; Rat; Copulation; Motivation (Shimura, T. (640) 215)

Sensory–motor convergence; Substantia nigra; Awake monkey; Motor control; Polymodal sensory (Magariños-Ascone, C. (646) 299)

Upper airway
Control of breathing; Hypoglossal motoneuron; Microdialysis; Pons; REM sleep; Serotonin; Sleep apnea syndrome (Kubin, L. (645) 291)

Upregulation
Serotonin 5-HT_{1B} receptor; 5,7-Dihydroxytryptamine; Parachlorophenylalanine; L-5-Hydroxytryptophan; Time course; Quantitative autoradiography; Suprachiasmatic nucleus; Rat (Manrique, C. (663) 93)

Uptake
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Tetrahydrobiopterin; Dopamine; Synaptosome; PC12 cell; 6-Hydroxydopamine; Tyrosine hydroxylase (Anastasiadis, P.Z. (665) 77)

Urethane anesthesia
Hippocampus; Brain temperature; Behavior; Field potential; Sleep (Cain, D.P. (658) 135)

Atropine sulfate; Autospectral analysis; Baroreceptor denervation; Decerebrate cat; Physostigmine; 2–6-Hz oscillation (Orer, H.S. (661) 283)

Urethra
NADPH-diaphorase; Dorsal root ganglia; Major pelvic ganglia; Nitric oxide synthase; Urinary bladder; Penis; Lumbosacral spinal cord (Vizzard, M.A. (646) 279)

Uric acid
Hypoxia; Brain cell membrane; Lipid peroxidation; Xanthine oxidase; Energy metabolism; ^{31}P-NMR; Allopurinol (Marro, P.J. (650) 9)

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Uridine
Haloperidol; Conditioned avoidance; Antipsychotic; Schizophrenia (Myers, C.S. (651) 194)

Urinary bladder
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NADPH-diaphorase; Dorsal root ganglia; Major pelvic ganglia; Nitric oxide synthase; Penis; Urethra; Lumbosacral spinal cord (Vizzard, M.A. (646) 279)

Sacral parasympathetic nucleus; Nociception; Spinal tract neuron; c-*fos*; Rat (Ding, Y.-Q. (659) 283)

Uterine cervix
Mechanoreceptor; Vagina; Pudendal nerve; Mating behavior (Cueva-Rolón, R. (655) 1)

Uterus
Solitary nucleus; Reproduction; Cervix; Vagina; Colon; Viscera (Hubscher, C.H. (664) 1)

V

Vacuous chewing movement
Tardive dyskinesia; Neuroleptic; Dopamine; Dopamine receptor; Autoradiography (Knable, M.B. (646) 217)

Vagal afferent
Respiratory neuron; Medulla oblongata; Nucleus tractus solitarii; Extracellular recording; Antidromic stimulation; DL-Homocysteic acid (De Castro, D. (639) 49)

Hyperalgesia; Dorsolateral funiculus; Nucleus raphe magnus; Nucleus reticularis paragigantocellularis; Liver; Spinal cord; Lipopolysaccharide (Watkins, L.R. (639) 283)

Adenosine; Receptor; Nucleus tractus solitari; Nodose ganglion; Autoradiography; Microdialysis; Glutamate (Castillo-Meléndez, M. (652) 137)

Vagal afferent ganglion
Nodose; Cholecystokinin; Neuropeptide Y; Receptor; Analgesia; Satiety (Ghilardi, J.R. (633) 33)

Vagal nucleus
Central nucleus of the amygdala; Substantia innominata; Bed nucleus of stria terminalis; Parabrachial nucleus; Diagonal ventral forebrain continuum (Schmued, L.C. (667) 175)

Vagina
Substance P; Spinal cord; Pain; Analgesia; Cervix (Steinman, J.L. (647) 204)

Mechanoreceptor; Uterine cervix; Pudendal nerve; Mating behavior (Cueva-Rolón, R. (655) 1)

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Vagotomy
Thyrotropin-releasing hormone; Hyperactivity; Dopamine turnover; Nucleus accumbens (Ogawa, N. (633) 167)

Ceruletide; Dopamine release; Medial prefrontal cortex; Cholecystokinin antagonist; Brain dialysis (Hagino, Y. (644) 40)

Paraventricular nucleus; Thyrotropin-releasing hormone; Gastric contractility (Morrow, N.S. (644) 243)

Vagus
Commissural nucleus; Area postrema; Cardiovascular regulation; Sodium receptor; Sympathetic nervous system (Hochstenbach, S.L. (644) 233)

Vagus nerve
Proto-oncogene; c-Fos; Medulla; Nucleus tractus solitarii; Inferior olivary complex (Yousfi-Malki, M. (635) 317)

Adrenergic fiber; Autonomic nervous system; Catecholamine; Histamine; Medulla oblongata; Pancreas; Parasympathetic nervous system; Pseudorabies virus; Raphe nucleus; Serotonin; Viral transneuronal labeling (Loewy, A.D. (638) 248)

Axotomy; Protein kinase C; Isozyme; Histochemistry; Hypoglossal nerve (Yamada, E. (639) 341)

c-*fos*; Glucoprivation; Lipoprivation; Glucoreceptor; 2-Deoxy-D-glucose; 2-Mercaptoacetate; Rat brain (Ritter, S. (641) 111)

2,5-Anhydro-D-mannitol; c-*fos*; Nucleus tractus solitarii; Lateral parabrachial nucleus; Food intake (Ritter, S. (646) 53)

Area postrema; Gastric relaxation; Control of gastric motility; Circumventricular organ; DL-Homocysteic acid (Bongianni, F. (646) 307)

Rat; Axotomy; Platelet-derived growth factor; Platelet-derived growth factor receptor; Degeneration (Yamada, E. (651) 108)

Sino-atrial node; Bradycardia; Ganglion; Nucleus ambiguus; Retrograde transport; Substance P; Synapse; Ultrastructure (Massari, V.J. (660) 275)

Axoplasmic transport; 2D electrophoresis; Protein release; Exocytosis; Nerve regeneration (Remgård, P. (663) 326)

Vanilloid receptor
Resiniferatoxin autoradiography; Cooperative binding; Capsaicin; Capsazepine (Szallasi, A. (655) 237)

Vascular cast
Hypobaric hypoxia; Brain microcirculation; Angiogenesis; Capillary segment length (Mironov, V. (660) 73)

Vascular permeability
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Vascular reactivity
Brain; Microcirculation; Isoproterenol; Forskolin; Norepinephrine (Mayhan, W.G. (659) 208)

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Vasoactive intestinal peptide
Prolactin; Gene expression; Hypothalamus; Polymerase chain reaction; Sleep; Pituitary adenylate cyclase-activating peptide (Bredow, S. (660) 301)

Vasoactive intestinal polypeptide
Astrocyte; Interleukin-6; Interleukin-1β; Pituitary adenylate cyclase activating polypeptide (Gottschall, P.E. (637) 197)

Corticotropin-like intermediate lobe peptide; Delta sleep inducing peptide; Nucleus raphe dorsalis; Serotonin; Slow wave sleep; Paradoxical sleep; Hypnogenic factor; Rat (El Kafi, B. (637) 211)

Prolactin; Sleep; REM (Obál Jr., F. (645) 143)

Somatostatin; Circadian rhythm; Suprachiasmatic nucleus; Cysteamine; Enzyme immunoassay; Rat (Fukuhara, C. (645) 343)

Nerve growth factor; Neurotrophin; Neuropeptide Y; Hippocampal formation; Cerebral cortex (Lapchak, P.A. (654) 1)

Peptide histidine isoleucine; Peptide histidine valine; Suprachiasmatic nucleus; Cerebral cortex; Peptide processing; Vasoactive intestinal polypeptide precursor; Circadian; Mouse (Mikkelsen, J.D. (656) 95)

Acetylcholine; Neuropeptide Y; Immunohistochemistry (Ceccatelli, S. (656) 381)

Vasoactive intestinal polypeptide precursor
Vasoactive intestinal polypeptide; Peptide histidine isoleucine; Peptide histidine valine; Suprachiasmatic nucleus; Cerebral cortex; Peptide processing; Circadian; Mouse (Mikkelsen, J.D. (656) 95)

Vasocative intestinal peptide
mRNA; Development; Suprachiasmatic nucleus; Biological clock (Glazer, R. (644) 164)

Vasoconstrictor
Biocytin; Intermediolateral cell column; Axon (Pilowsky, P. (656) 319)

Vasomotor
Medulla oblongata; Sympathetic; Preganglionic neuron; Monosynaptic; Blood pressure (McAllen, R.M. (634) 227)

Vasomotor neuron
Losartan; Arterial pressure; Sympathetic nervous system; Angiotensin II; L-Glutamate; Genetic hypertension (Averill, D.B. (665) 245)

Vasomotor regulation
Adrenergic cell; Serotonergic cell; Catecholaminergic autoreceptor; Central autonomic pathway; Blood pressure; Bulbospinal pre-sympathetic neuron; Clonidine; CNS acting sympatholytic drug (Guyenet, P.G. (638) 285)

Vasopressin
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Excitatory amino acid; Corticotropin-releasing hormone; Hypothalamus (Patchev, V.K. (633) 312)

Angiotensin AT_1 receptor; Angiotensin AT_2 receptor; Osmolality (Hogarty, D.C. (637) 126)

Autoradiography; Castration; Hamster; Hypothalamus; Oxytocin; Sex difference (Dubois-Dauphin, M. (638) 267)

Suprachiasmatic nucleus; Circadian rhythm; Aarginine-vasopressin; Immunoreactivity; Vole (Gerkema, M.P. (639) 93)

Cerebrospinal fluid; Median eminence; Pituitary gland; Immunocytochemistry; Neuroendocrine regulation (Cloft, H.J. (639) 233)

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Lateral septum; Lateral habenular nucleus; Parental behavior; Testosterone (Wang, Z. (650) 212)

Fos; Aging; Supraoptic nucleus; Paraventricular nucleus (Sladek, C.D. (652) 207)

Caudal ventrolateral medulla; A1 noradrenergic neuron; Hemorrhage; Arterial pressure; Endocrinology (Gieroba, Z.J. (657) 330)

Brain microdialysis; Hemorrhage; Sexual dimorphism; Blood pressure; Paraventricular nucleus (Ota, M. (658) 49)

Angiotensin II; c-*fos*; Oxytocin; Immediate early gene; Drinking behavior; Water ingestion; Gene suppression; Paraventricular nucleus; Supraoptic nucleus (Xu, Z. (659) 157)

Hippocampus; Calcium; Inositol trisphosphate; Vasopressin V_1 receptor; Neural peptide; Learning and memory; Nerve cell growth (Brinton, R.D. (661) 274)

Supraoptic nucleus; Paraventricular nucleus; c-*fos*; Hemorrhage; Water deprivation; Oxytocin; Lactation (Fénelon, V.S. (662) 165)

Food deprivation; Water deprivation; Hypothalamic–pituitary–adrenal axis; Paraventricular nucleus; Corticotropin-releasing hormone; Receptor (Kiss, A. (663) 84)

Corticotrophin-releasing factor; Proenkephalin A; Corticosterone; Stress; Rat strain (Harbuz, M.S. (667) 6)

Salt-loading; Rehydration; Galanin; Dynorphin; Immunocytochemistry (Yagita, K. (667) 13)

Vasopressin-associated glycopeptide
Prader-(Labhart)-Willi; 7B2; Immunocytochemistry; Hypothalamus; Chromosome 15 (Gabreëls, B.A.Th.F. (657) 281)

Vasopressin neuron
Suprachiasmatic nucleus; Hypothalamus, human; Circadian rhythm; Biological clock; Aging (Hofman, M.A. (651) 134)

Vasopressin V_1 receptor
Adrenalectomy; Hippocampus; Mineralocorticoid receptor (type I); Glucocorticoid receptor (type II); Receptor binding (Saito, R. (646) 170)

Vasopressin; Hippocampus; Calcium; Inositol trisphosphate; Neural peptide; Learning and memory; Nerve cell growth (Brinton, R.D. (661) 274)

Vasotocin
Preoptic region; Lateral septum; *Coturnix japonica*; Avian brain; Immunocytochemistry; Quantitative analysis (Viglietti-Panzica, C. (657) 171)

Velocity selectivity
Norepinephrine; Visual cortex; Orientation selectivity; Cat; Iontophoresis (McLean, J. (667) 83)

Ventral pallidum
Nucleus accumbens; NMDA acid; Intracranial self-stimulation; Reward; Self-stimulation (Johnson, P.I. (646) 73)

Striatopallidal; Globus pallidus; Hyperkinesia; Quinolinic acid; Lesion mapping (Cromwell, H.C. (668) 16)

Ventral respiratory group
Respiratory neuron; Phrenic motoneuron; Respiratory control; Neurobiotin; Crossed-phrenic phenomenon (Lipski, J. (640) 171)

Ventral root
Rat; C-fiber; Capsaicin; Electron microscopy; Immunohistochemistry; Plasma protein extravasation (Karlsson, M. (642) 244)

Rat; Pia mater; C-fiber; Sciatic nerve; Crush; Electron microscopy; Immunohistochemistry (Karlsson, M. (667) 39)

Ventral septal area
Arginine vasopressin; Blood pressure; Antipyresis; Push–pull perfusion (Earle, M.L. (658) 15)

Ventral striatum
Hippocampus; Amygdala; Spatial memory; Single unit activity (Lavoie, A.M. (638) 157)

Microdialysis; Intracerebral transplantation; Parkinson's disease; Ventral tegmental area; Substantia nigra; Prefrontal cortex; Paw-reaching; Staircase test (Cenci, M.A. (641) 225)

Alzheimer's disease; Striatum; Tangle; Plaque; Limbic system (Selden, N. (648) 327)

Human brain; Dopamine; Monoamine; Caudate nucleus; Putamen; Striosome; Matrix (Lehéricy, S. (659) 1)

Shell; Core; Choline acetyltransferase; Leucine^5-enkephalin; Opioid peptide; Silver-enhanced gold; Silver-intensified gold (Meredith, G.E. (667) 67)

Ventral tegmental area
Dopamine; DOPAC; Nucleus accumbens; Baclofen; In vivo brain dialysis (Yoshida, M. (636) 111)

Morphine; Serotonin 5-HT_3 receptor; Serotonin 5-HT_3 antagonist; Dopamine neuron (Gifford, A.N. (638) 325)

Microdialysis; Intracerebral transplantation; Parkinson's disease; Substantia nigra; Prefrontal cortex; Ventral striatum; Paw-reaching; Staircase test (Cenci, M.A. (641) 225)

Stimulation-induced feeding; Lesion; Facilitation; Contralateral effect; Rat (Trojniar, W. (641) 333)

Insulin; Substantia nigra pars compacta; Dopamine transporter; Catecholamine; In situ hybridization (Figlewicz, D.P. (644) 331)

Serotonin; Substantia nigra; Dopamine neuron (Pessia, M. (654) 324)

Somatodendritic dopamine release; Electrochemistry; Mesocorticolimbic system (Zhang, H. (656) 59)

Substantia nigra; Nicotinic; Muscarinic; Cholinergic; Mecamylamine (Levin, E.D. (657) 165)

Substantia nigra; Hippocampal formation; Mesolimbic dopaminergic system; Fluoro-Gold; Tyrosine hydroxylase (Gasbarri, A. (668) 71)

Ventrolateral medulla
Central nucleus of the amygdala; Bed nucleus of the stria terminalis; Catecholaminergic cell group; C1 adrenergic cell group; Central cardiovascular pathway (Roder, S. (638) 182)

Hypertension; Angiotensin II; Angiotensin antagonist; Angiotensin-(1–7) antagonist; Angiotensin receptor (Fontes, M.A.P. (665) 175)

Ventromedial hypothalamic nucleus
Glucose uptake; Skeletal muscle; Sympathetic nerve; Guanethidine; Adrenal medulla (Minokoshi, Y. (649) 343)

Ventromedial hypothalamus
2-Deoxyglucose; Anterior hypothalamus; Medial preoptic area; Reptile (Rand, M.S. (663) 163)

Ventromedial hypothalmic lesion
Spleen; Natural killer cell activity (Katafuchi, T. (652) 164)

Ventromedial medulla
Pain; Single-unit activity; Freely moving rat; Polyarthritic rat (Montagne-Clavel, J. (657) 92)

Ventromedial nucleus of hypothalamus
Baclofen; Bicuculline methiodide; Enkephalin; Estrogen; γ-Aminobutyric acid; $GABA_A$ receptor; $GABA_B$ receptor; Lordosis; THIP; Tonic inhibition (Ogawa, S. (666) 239)

Ventromedial nucleus of the hypothalamus
Running activity; Blood glucose; Kainate; GABA; Norepinephrine (Narita, K. (642) 290)

Serotonin 1A receptor; Serotonin 2 receptor; Intact rat; 8-OH-DPAT; DOI (Uphouse, L. (668) 271)

Verapamil
Epilepsy; Flunarizine; Picrotoxin; GABA; Calcium channel blocker (Straub, H. (658) 119)

Veratridine
In vitro; Gonadotropin releasing hormone; Hypothalamus; Guinea pig; Tetrodotoxin; Calcium antagonist (Giri, M. (648) 270)

Long-term potentiation; MK-801; 4-Aminopyridine; Potassium (Canevari, L. (667) 115)

Vermis
Cerebellum; Basilar pontine nucleus; Rat; Paraflocculus; Stripe (Serapide, M.F. (644) 175)

Vertebrate
D-Serine; Distribution; Brain; Cerebrum; Cerebellum; NMDA receptor; D-Amino-acid oxidase (Nagata, Y. (634) 291)

Vertebrate rod photoreceptor
Transduction; cGMP renewal; Slowing of kinetics; Outer segment; Aging (Leibovic, K.N. (653) 325)

Vesicle hypothesis
Synaptic vesicle; Transmitter release; Morphometry; Exocytosis; Acetylcholine; *Torpedo* electric organ; Fractal dimension (Fox, G.Q. (660) 113)

Vesicular stomatitis virus
BALB/c mouse; Immunohistochemistry; Intranasal infection; Axonal transport; Accessory olfactory bulb; Amygdala–fugal pathway (Huneycutt, B.S. (635) 81)

Vestibular
Hair cell; Non-NMDA receptor; Transmitter; Modulator; Invertebrate (Tu, Y. (642) 47)

Efferent; Synapse; Hair cell; Acetylcholine; Nicotinic; Labyrinth; Frog (Cochran, S.L. (642) 344)

Fos; Zif/268; Otolith; Semicircular canal; Inferior olive; Anesthetic effect (Kaufman, G.D. (646) 345)

Vestibular complex
Inositol 1,4,5-trisphosphate receptor; Immunocytochemistry; Ectopic Purkinje cell; Dorsal cochlear nucleus (Rodrigo, J. (634) 191)

Vestibular efferent
Lateral superior olivary nucleus; Nerve injury; Immunohistochemistry (Ohno, K. (644) 135)

Vestibular ganglion
GABA; Hair cell; Terminal ending; Immunohistochemistry (Kitahara, T. (650) 157)

Vestibular nucleus
Nodulus; Afferent projection; Cat (Akaogi, K.-i. (638) 12)

NMDA receptor; Glutamate receptor; Whole-cell recording; Voltage clamp; Medial vestibular nucleus; Rat; Slice (Takahashi, Y. (659) 287)

Vestibulo-oculomotor system
GABA transmission; Baclofen; CGP 35348; Opto-oculomotor system; Saccade; Pigmented rat (Niklasson, M. (649) 151)

Vibrissa
Synapse elimination; Maps formation; Cerebellum; Purkinje cell; Climbing fiber; X-irradiation (Fuhrman, Y. (638) 277)

Vigilance reaction
Defense reaction; Baroreceptor reflex; Hypothalamus; Medulla; Rabbit (Duan, Y.-F. (643) 218)

Vincristine
Cisplatin; Taxol; Dorsal root ganglion; Nerve growth factor; Rat (Konings, P.N.M. (640) 195)

α-Sialyl cholesterol; Schwann cell; Laminin; Taxol; Cisplatin; K-562 cell; Rat (Konings, P.N.M. (654) 118)

γ-vinyl-GABA
Anticonvulsant; GABA; Hippocampus; Inhibition; Paired-pulse (Jackson, M.F. (651) 85)

Viral transneuronal labeling
Adrenergic fiber; Autonomic nervous system; Catecholamine; Histamine; Medulla oblongata; Pancreas; Parasympathetic nervous system; Pseudorabies virus; Raphe nucleus; Serotonin; Vagus nerve (Loewy, A.D. (638) 248)

Viscera
Pain; Colorectal distention; Nociception (Follett, K.A. (656) 27)

Solitary nucleus; Reproduction; Uterus; Cervix; Vagina; Colon (Hubscher, C.H. (664) 1)

Visceral nerve
Iminodipropionitrile; Intermediate filament; Neurofilament; Neuropathology; Neuropathy (Ferri, G.-L. (657) 315)

Vision
Development; Cat; Activity; Cloning; mRNA; Gene expression; Sequence identity (Prasad, S.S. (639) 73)

Visual cortex
Multielectrode array; Intracortical recording; Electrode recording property; Neuroprosthetics; Neurophysiology (Nordhausen, C.T. (637) 27)

Patch-clamp; Voltage-clamp; Single neuron; GABA; Glycine; NMDA (Takahashi, Y. (640) 229)

Primate; Area 17; Somatosensory cortex; Corpus callosum; Development (Beck, P.D. (651) 57)

Lateral geniculate nucleus; Biocytin (McCart, R.J. (653) 351)

Macaca mulatta; Protein kinase C; Retina; Lateral geniculate nucleus; Immunocytochemistry; Subspecies (Fukuda, K. (658) 155)

Synaptic plasticity; Long-term depression; Metabotropic glutamate receptor (Kato, N. (665) 158)

Norepinephrine; Velocity selectivity; Orientation selectivity; Cat; Iontophoresis (McLean, J. (667) 83)

Visual deprivation
Enucleation; Auditory map; Auditory development; Directional hearing; Superior colliculus (Withington, D.J. (636) 348)

Visually evoked potential
Zebra finch; Visual wulst; Ectostriatum; Optic tectum; Ipsi- and contralateral stimulus responses; Cooling; Spreading depression (Engelage, J. (652) 17)

Visual memory
Memory; Inferotemporal cortex; Monkey; Extrastriate cortex; Area TE; Learning (Sobotka, S. (646) 95)

Visual system
Histamine H_3 receptor; Receptor autoradiography; Unilateral enucleation; Neuronal plasticity; Superior colliculus (Nakagawa, Y. (643) 74)

Melatonin receptor; 2-Iodomelatonin binding; Chick; Optic nerve transection; Autoradiography (Krause, D.N. (654) 63)

Retinohypothalamic tract; Photoperiodic perception; Circadian rhythm; Immediate early gene expression (Vuillez, P. (654) 81)

Retinopetal projection; Isthmo-optic projection; Fish; Amphibian; Reptile (Malz, C.R. (661) 259)

Calbindin; Optic tectum; Parvalbumin; Retinotectal system; Subcortical visual pathways (Britto, L.R.G. (661) 289)

NMDA; Cerebral cortex; Rat; Connection; Synapse; Cortical slice (Currie, S.N. (662) 103)

Glia; Astrocyte; Plasticity; Deprivation; Afferent activity (Canady, K.S. (663) 206)

Visual wulst
Zebra finch; Visually evoked potential; Ectostriatum; Optic tectum; Ipsi- and contralateral stimulus responses; Cooling; Spreading depression (Engelage, J. (652) 17)

Vitamin D receptor
Steroid hormone; Central nervous system; Choroid plexus; Turtle; Reptilia; Autoradiography (Bidmon, H.-J. (640) 277)

Vitronectin
Pick body; Ballooned neuron; Complement membrane attack complex; Clusterin; Protectin (Yasuhara, O. (652) 346)

Vitronectin receptor
Glioma cell; Integrin; Fibronectin receptor; Focal contact; Cell spreading; Chemotaxis; Gliosis (Umezawa, K. (659) 23)

VMH
2-Deoxyglucose; Hyperglycemia; Microwave irradiation; Microdissection; PVN; LH; Acetylcholine; Norepinephrine (Takahashi, A. (665) 13)

Vole
Suprachiasmatic nucleus; Circadian rhythm; Vasopressin; Aarginine-vasopressin; Immunoreactivity (Gerkema, M.P. (639) 93)

Voltage-clamp
Visual cortex; Patch-clamp; Single neuron; GABA; Glycine; NMDA (Takahashi, Y. (640) 229)

Voltage clamp
Antidromic activation; Autoradiography; Biocytin; Brainstem slice; Non-specific current; Neuropeptide; Synaptic current; Oxytocin (Palouzier-Paulignan, B. (650) 117)

NMDA receptor; Glutamate receptor; Whole-cell recording; Vestibular nucleus; Medial vestibular nucleus; Rat; Slice (Takahashi, Y. (659) 287)

Voltage-dependent calcium channel
Global cerebral ischemia; Autoradiography; Hippocampus; PN200-110 (isradipine); ω-Conotoxin GVIA (Perry, D.C. (657) 65)

Voltage-gated Ca^{2+} channel blocker
Cytosolic Ca^{2+}; Hypercapnic acidosis; D600; Glomus cell; Adult rabbit carotid body (Sato, M. (662) 251)

Voltage-sensitive channel
Ca^{2+} wave; Glial channel; Retina; Spreading depression; Intrinisic optical signal (Fernandes de Lima, V.M. (663) 77)

Voltammetry
Dopamine; Dopamine receptor agonist; Dopamine receptor antagonist (Abraini, J.H. (642) 199)

Mesolimbic dopamine system; Feeding behavior; Motivation; Reinforcement (Kiyatkin, E.A. (652) 225)

Voltammetry, in vivo
Interleukin-1; Glucocorticoid; Serotonin; Hypothalamus (Gemma, C. (651) 169)

α_2-Receptor; Clonidine; Excitatory amino acid; Locus ceruleus; Withdrawal syndrome (Duggan, S. (665) 253)

Volume
Calcium; Bleb; ATP; Cortex (Friedman, J.E. (641) 57)

Sodium green; Cortex; Hippocampus (Friedman, J.E. (663) 329)

Volume regulation
Astrocyte; Calcium flux; Cellular calcium compartment; cAMD Dibutyryl; Hypoosmotic stress (Bender, A.S. (645) 27)

Glioma cell; Hypoosmolality (Lohr, J.W. (667) 263)

Volume transmission
Microdialysis; MPTP; Parkinsonism; Dopamine; Striatum (Schneider, J.S. (643) 86)

Noradrenaline; Synapse; Paraventricular nucleus of the hypothalamus; Supraoptic nucleus; Locus ceruleus; Membrane turnover; Dopamine β-hydroxylase (Aoki, C. (650) 181)

Dopamine; 6-Hydroxydopamine; Microdialysis; Immunohistochemistry; Electrophysiology (Bjelke, B. (662) 11)

Vomeronasal axon
Fasciculation; Lectin; Organotypic culture; Glycoconjugate; Development (Ichikawa, M. (668) 252)

Vomeronasal organ
Calbindin-D28k; Calcium binding protein; Neural; Neuroendocrine; Immunocytochemistry (Johnson, E.W. (638) 329)

Vomeronasal system
Diazepam; Sexual dimorphism; Accessory olfactory bulb; Neurofunctional teratology; $GABA_A$ receptor (Pérez-Laso, C. (634) 1)

Vomiting
Central pattern generator; Retrofacial nucleus; Cerebellum; Brainstem (Miller, A.D. (647) 255)

Vulnerability
Transcription factor; Activator protein-1; Ischemia; CA1 subfield; Apoptosis (Yoneda, Y. (667) 54)

W

W-7
Calmodulin; Central nervous system neuron; Flow cytometer; Oxidative metabolism; Reactive oxygen species (Oyama, Y. (664) 220)

Wakefulness
Retina; Dorsal raphe nucleus; Periaqueductal gray; Serotonin; Sleep; Circadian rhythm; Tract tracing (Shen, H. (635) 159)

Wallerian degeneration
Neurofilament; Immunohistochemistry; Retinal fiber; Optic tract (Meller, D. (648) 162)

Warming
Preoptic/anterior hypothalamus; NREM sleep; Slow-wave sleep; EEG; Delta activity; Thermoregulation (McGinty, D. (667) 273)

Water deprivation
2-Deoxyglucose; Pigeon; Subfornical organ; Thirst (Heuston, K. (654) 331)

Supraoptic nucleus; Paraventricular nucleus; c-*fos*; Hemorrhage; Oxytocin; Vasopressin; Lactation (Fénelon, V.S. (662) 165)

Food deprivation; Hypothalamic–pituitary–adrenal axis; Paraventricular nucleus; Corticotropin-releasing hormone; Vasopressin; Receptor (Kiss, A. (663) 84)

Water ingestion
Angiotensin II; c-*fos*; Vasopressin; Oxytocin; Immediate early gene; Drinking behavior; Gene suppression; Paraventricular nucleus; Supraoptic nucleus (Xu, Z. (659) 157)

Water intake
Opioid antagonist; μ Opioid receptor; κ Opioid receptor; δ Opioid receptor; Angiotensin II; Hypertonic saline; Drinking (Ruegg, H. (635) 203)

Fluid balance; Electrolyte balance; AV3V region; Adrenergic receptor (Bastos, R. (636) 81)

Kininase II; Lamina terminalis; Subfornical organ; Paraventricular hypothalamus; Hypotension (Rowland, N.E. (654) 34)

Opioid antagonist; μ Opioid receptor; κ Opioid receptor; δ Opioid receptor; Isoproterenol; Drinking (Glass, M.J. (657) 310)

Water maze
Sex difference; Spatial learning; Deer mouse; Sex hormone; Seasonal difference; Reproductive status; Breeding and non-breeding (Galea, L.A.M. (635) 18)

Kainate; Neurotoxicity; Hippocampus; Spatial learning; Rat (Gayoso, M.J. (653) 92)

Aging; Stress; Hippocampus; Memory; Learning; Radial maze; Morphometry (Arbel, I. (657) 227)

Waveform
Motor control; Electromyography; Biarticular muscle; Recruitment; Coordination of motor pools (De Leon, R. (654) 241)

Weanling and adult
Blood–brain barrier glucose transporter; Kinetic constant; GLUT1 isoform; Quantitative immunogold electron microscopy; Luminal and abluminal membrane; Neonate; Suckling; Developmental upregulation; Cerebral blood flow; Permeability-surface area product (Cornford, E.M. (663) 7)

Weaver
Dopamine; Mutant mouse; Nigrostriatal pathway; Substantia nigra (Schneider, J.S. (636) 353)

Weight loss
Opioid; Reward; Food restriction; Self-stimulation (Carr, K.D. (639) 253)

Western blot
Alzheimer's disease; Protein kinase C; Reserpine; Rat brain (Komachi, H. (634) 127)

Insulin-like substance; Insulin receptor; Fetal neuron cell culture; Peroxidase–antiperoxidase; In situ hybridization; Northern blot; High performance liquid chromatography; Radioimmunoassay (Schechter, R. (636) 9)

Western blot analysis
β-Amyloid precursor protein; Human fetal spinal cord; Development; Immunostaining (Arai, H. (642) 132)

Western blotting
Amyloid precursor protein; Human brain; Coma; Brain autolysis; Anti-β/A4 antibody; Brain fraction (Webster, M.-T. (644) 347)

WGA-HRP
Cholecystokinin; Immunohistochemistry; Hypothalamus; Neurohypophysis; Rat (Liu, S. (651) 7)

Wheat germ agglutinin–horseradish peroxidase
Sympathetic nerve; Superior cervical ganglion; Major petrosal nerve; Anterograde tracing; Cochlea; Rat (Shibamori, Y. (646) 223)

Superior colliculus; Reticular formation; Substantia nigra; *Phaseolus vulgaris* leucoagglutinin; Rat (Yasui, Y. (656) 420)

White matter
Non-pyramidal neuron; Sensory; Motor; Association area (Hashikawa, T. (641) 341)

Cerebral palsy; Fever; O2A progenitor; Lipid peroxidation (Juurlink, B.H.J. (641) 353)

White noise
Mammalian central neuron; Intracellular recording; Synaptic integration; Neocortex; Hippocampus; Thalamus; Purkinje cell; Brain slice; Slice culture (Jahnsen, H. (666) 9)

Whole-cell patch clamp
High-voltage activated current; Opioid peptide; Basal ganglia (Stefani, A. (642) 339)

Whole-cell patch-clamp recording
Medial preoptic area; GABA; Glutamate (Hoffman, N.W. (660) 349)

Whole-cell recording
Bulbospinal neuron; Retrograde transport; Brainstem slice; DiI (Kangrga, I.M. (641) 181)

NMDA receptor; Glutamate receptor; Voltage clamp; Vestibular nucleus; Medial vestibular nucleus; Rat; Slice (Takahashi, Y. (659) 287)

Whole cell recording
Norepinephrine; Carbachol; cAMP-dependent protein kinase; CA1; Rp-cAMPS (Blitzer, R.D. (646) 312)

Whole-cell voltage clamp
Outer hair cell; Guinea pig; Cisplatin; Ototoxicity; Calcium current (Yamamoto, T. (648) 296)

Neuronal nicotinic receptor subunit; Mouse N1E-115 neuroblastoma cell; Acetylcholine; Cytisine; Nicotine; Bungarotoxin (Zwart, R. (654) 312)

Action potential; Calcium-dependent potassium current; Chromaffin; Neuroendocrine; Repolarization (Pancrazio, J.J. (668) 246)

Whole cell voltage clamp
Alcohol withdrawal; Genetic model; Seizure; Hippocampus; Calcium current (Perez-Velazquez, J.L. (649) 305)

Wide dynamic range neuron
Interleukin-1β; Hyperalgesia; Interleukin-1 receptor antagonist; α-Melanocyte stimulating hormone; Prostaglandin E_2; Central nervous system; Pain (Oka, T. (656) 236)

Von Willebrand factor
Hypertension; Lipopolysaccharide; Endothelial cell; Stroke; Monocyte (McCarron, R.M. (647) 265)

WIN 35428
Dopamine transporter; Quantitative autoradiography; GBR 12935; Drug seeking behavior (Wilson, J.M. (668) 39)

Wistar–Kyoto rat
Spontaneously hypertensive rat; Electrolytic lesion; Substantia nigra; Caudate nucleus; Blood pressure; Dopamine; In vitro superfusion (Linthorst, A.C.E. (639) 261)

Dynorphin; Hippocampal formation; Blood pressure; Spontaneously hypertensive rat; Colchicine; Hypertension (Privette, T.H. (656) 295)

Wistar–Kyotot rat
Norepinephrine; Depression; Limbic system; Stress; Animal model (Tejani-Butt, S.M. (649) 27)

***Wisteria floribunda* agglutinin**
Triple immunofluorescence labeling; Dual-peroxidase staining; Glia; Extracellular matrix; Chondroitin sulfate proteoglycan; Cortex; Rat (Härtig, W. (635) 307)

Withdrawal
Vasopressin; Lateral septum; Ethanol; Immunocytochemistry; Rat (Sousa, N. (648) 53)

NMDA; Morphine; MK-801; Dependence (Kreeger, J.S. (663) 101)

Withdrawal syndrome
α_2-Receptor; Clonidine; Excitatory amino acid; Voltammetry, in vivo; Locus ceruleus (Duggan, S. (665) 253)

Wobbler mouse
Motor neuron disease; Spinal cord; Glutamate receptor; Autoradiography (Tomiyama, M. (650) 353)

Wobbler mouse motoneuron disease
Radioimmunoassay; Radioenzymatic assay; Cervical spinal cord; Acetylcholinesterase; Choline acetyltransferase; Thyrotropin-releasing hormone; Substance P; Methionine-enkephalin; Leucine-enkephalin (Yung, K.K.L. (638) 337)

Working memory
Nitric oxide; L-NAME; Hippocampus; Cerebral ischemia; Reference memory; Rat (Ohno, M. (634) 173)

Baclofen; Double Y-maze; GABA; Memory; Muscimol; Nucleus basalis magnocellularis; Phaclofen; Reference memory (DeSousa, N.J. (641) 29)

Muscarinic M_1 receptor; Muscarinic M_2 receptor; Pirenzepine; AF102B; Methoctramine; Hippocampus; Reference memory (Ohno, M. (650) 260)

FG 7142; Double Y-maze; γ-Aminobutyric acid; Memory; Muscimol; Nucleus basalis magnocellularis; Reference memory (Smith, C.G. (666) 61)

Work-related myalgia
Arachidonic acid; Spinal reflex; Fusimotor neuron; Muscle spindle afferent; Muscle tonus (Djupsjöbacka, M. (663) 293)

Wound healing
Brain injury; Microglia; Macrophage; CGP 42112; Inflammation (Viswanathan, M. (658) 265)

X

Xanthine
Caffeine; Adenosine receptor; Epilepsy; Paroxysmal depolarization shift; CA3 neuron (Moraidis, I. (640) 140)

Purine; Adenosine; 1,3-Dipropyl-8-cyclopentylxanthine; Neuroprotection; Kainic acid; Neurodegeneration (Macgregor, D.G. (644) 339)

Theophylline; Purine; Hippocampus; Baclofen; Carbamazepine; Calcium; Adenosine (Hosseinzadeh, H. (657) 300)

Xanthine oxidase
Hypoxia; Brain cell membrane; Lipid peroxidation; Uric acid; Energy metabolism; ^{31}P-NMR; Allopurinol (Marro, P.J. (650) 9)

Xenopus laevis
Bicuculline methiodide; NMDA; Kainate; Epileptogenesis; Oocyte (Mußhoff, U. (639) 135)

X-irradiation
Regeneration; Dorsal root axon; Glial environment; Spinal cord (Sims, T.J. (634) 113)

Synapse elimination; Maps formation; Cerebellum; Purkinje cell; Climbing fiber; Vibrissa (Fuhrman, Y. (638) 277)

Y

YM-09151-2
Feeding; Nucleus accumbens; Meal patterning; Reward; Switching (Clifton, P.G. (667) 123)

Y-maze
Aging; Individual difference; Recognition-memory; Exploration; Rat (Dellu, F. (653) 51)

Yohimbine
Renin; Noradrenergic; Fenfluramine; 6-Hydroxydopamine; Lesion (Van de Kar, L.D. (634) 77)

Salt appetite; Amygdala; Furosemide (Zardetto-Smith, A.M. (645) 123)

Z

Zebra finch
Aromatase; Song system; Sexual differentiation (Wade, J. (639) 347)

Visually evoked potential; Visual wulst; Ectostriatum; Optic tectum; Ipsi- and contralateral stimulus responses; Cooling; Spreading depression (Engelage, J. (652) 17)

Zif/268
Fos; Vestibular; Otolith; Semicircular canal; Inferior olive; Anesthetic effect (Kaufman, G.D. (646) 345)

Zinc
Brain; Hippocampus; Choroid plexus; Blood–brain barrier; Manganese; Essential trace metal (Takeda, A. (640) 341)

Na^+,K^+-ATPase inhibitor; Ouabain; Melittin; Erythrosin B; Neuronal cytotoxicity; Acetylcholinesterase (Lees, G.J. (649) 225)

Cerebrospinal fluid; Choroid plexus; Blood–brain barrier; Manganese; Essential trace metal (Takeda, A. (658) 252)

Zinc depletion
Kainate; Neurotoxicity; Protection; Convulsion; Neuronal damage (Pohle, W. (644) 297)

Zinc protoporphyrin IX
Heme oxygenase; HPA; Neurotransmitter; Rat (Parkes, D. (646) 315)

Zitter rat
Catalase; D-Amino acid oxidase; Edematous change; Hydrogen peroxide; Spongiform encephalopathy (Gomi, H. (653) 66)

Zn^{2+}
AMPA; Neurotoxicity; Neuroprotection; Nimodipine; Enantiomer; Dihydropyridine; L-type Ca^{2+} channel (Freund, W.-D. (654) 257)

Zona incerta
Experimental epilepsy; Generalized seizure; Cholinergic system; Muscarinic receptor; Muscarinic M_1 receptor; Carbachol; Pirenzepine; Mecamylamine; Intracerebral injection; Rat (Cruickshank, J.W. (643) 125)

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Neurotrophin-3; Calcium-binding protein; Dorsal root ganglion; Parvalbumin; Calbindin-D28k; Neurotrophic factor (Copray, J.C.V.M. (81) 57)

C-CAM
Brain vessel; Cell adhesion; Developing CNS; Endothelial cell; Pericyte (Sawa, H. (78) 35)

Cannabinoid
Marihuana; Mesencephalic catecholaminergic neuron; Nigrostriatal dopaminergic neuron; Tyrosine hydroxylase; Tyrosine hydroxylase gene (Bonnin, A. (81) 147)

Capsaicin
Intracellular free calcium; NMDA receptor; Spinal cord dorsal horn; Substantia gelatinosa; Postnatal development; Fine primary afferent fiber (Hori, Y. (80) 141)

Calcitonin gene-related peptide; Ontogeny; Dorsal root ganglion; Resiniferatoxin (Jakab, G. (80) 290)

Neural crest; Sensory neuron; Development; Histochemistry (Matsumoto, S.G. (83) 17)

β-Carboline
TBPS-binding; $GABA_A$ receptor; Ontogenesis; Benzodiazepine; Bicuculline; Cerebral cortex of rat (Giorgi, O. (80) 73)

Carbon monoxide
Chronic hypoxia; Ornithine decarboxylase; Polyamine; Fetus (Packianathan, S. (83) 138)

Carboxypeptidase H (EC 3.4.17.10)
Ontogeny; Neutral endopeptidase 24.11 (EC 3.4.24.11); Metallo endopeptidase 24.15 (EC 3.4.24.15); Cholecystokinin; Hypothalamus; Cortex; Cerebellum (Oakes, M.G. (80) 127)

Carotid artery occlusion
Periventricular leukomalacia; Neonate; Dog; Cerebral ischemia (Yoshioka, H. (78) 273)

Castanospermine
α-Glucosidase inhibition; Sympathetic nerve; Neurite growth; Inhibition; Regeneration (Abotomey, C. (79) 101)

Castration
Gonadal hormone; Neonatal lesion; Hippocampus; Ibotenic acid; Amphetamine; Stereotypy; Apomorphine; Dopamine (Lipska, B.K. (78) 253)

Lateral septum; Testosterone; Vasopressin (Wang, Z. (79) 147)

Cat
Geniculocortical projection; Growth factor; Mouse; Organotypic culture; Target recognition (Lotto, R.B. (81) 17)

Plasticity; Dopamine β-hydroxylase; Development; Visual cortex (Liu, Y. (82) 90)

Cell adhesion
Brain vessel; C-CAM; Developing CNS; Endothelial cell; Pericyte (Sawa, H. (78) 35)

Cell body size
Postnatal development; Spinal motoneuron; Oxidative enzyme activity; Tibialis anterior muscle; Fluorescent neuronal tracer; Histochemistry; Rat (Ishihara, A. (83) 28)

Cell culture
Excitatory amino acid receptor pharmacology; Non-NMDA antagonist; GYKI 52466; Chicken cortical neuron; Whole-cell patch-clamp technique (Osipenko, O. (77) 257)

Tyrosine hydroxylase; Brain-derived neurotrophic factor; Dopamine; Cerebral cortex; Rat (Zhou, J. (81) 318)

Cell death
Apoptosis; Olfactory system; Ultrastructure; Rat (Pellier, V. (79) 307)

Cerebellum; Golgi; Purkinje cell; Granule cell (Shojaeian Zanjani, H. (82) 18)

Rat; Sensory innervation (Coggeshall, R.E. (82) 193)

Cell marker
Retinal transplantation; Human retina; Neuron-specific enolase; Synaptophysin; S-Antigen; Rhodopsin; α-Transducin; Vimentin; Cellular retinaldehyde-binding protein; Glial fibrillary acidic protein (Seiler, M.J. (80) 81)

Cell migration
Olfactory system; Growth-associated protein; B-50/GAP-43; Development; Immunocytochemistry (Pellier, V. (80) 63)

Somatostatin; Olfactory–forebrain region; Development; Immunohistochemistry; LHRH neuron; Chick embryo (Murakami, S. (82) 277)

Cellular retinaldehyde-binding protein
Retinal transplantation; Human retina; Cell marker; Neuron-specific enolase; Synaptophysin; S-Antigen; Rhodopsin; α-Transducin; Vimentin; Glial fibrillary acidic protein (Seiler, M.J. (80) 81)

Central cholinergic neuron
Nerve growth factor; Neurotrophin; Choline acetyltransferase activity; Acetylcholinesterase; Neuronal survival; Postnatal neuron (Nonner, D. (79) 219)

Central nervous system
Pyruvate dehydrogenase; Expression; Mouse embryo; Development of brain; Energy metabolism; Brain malformation; Pyruvate dehydrogenase deficiency (Takakubo, F. (77) 63)

Calcium-binding protein; Immunohistochemistry (Vogt Weisenhorn, D.M. (82) 293)

Peripheral nervous system; Myelin; Ceramide galactosyltransferase; Phosphatidylcholine; Trembler (Garbay, B. (83) 119)

Central neuron
Synaptogenesis; Glutamatergic synapse; GABAergic synapse; Synapsin I; Miniature synaptic current; Tetrodotoxin (Gottmann, K. (81) 77)

Ceramide galactosyltransferase
Central nervous system; Peripheral nervous system; Myelin; Phosphatidylcholine; Trembler (Garbay, B. (83) 119)

Cerebellar development
Neonatal ovariectomy; Ovarian sex steroid; Granule cell; Purkinje cell; Foliation; Neurogenesis; Neuronal death (Litteria, M. (81) 113)

Cerebellar dysplasia
Animal model; Lewis rat; Neurogenesis; Mutant; Pathology; Vermis defect; Rhombencephalosynapsis (Kuwamura, M. (83) 294)

Cerebellar granule cell
Alanine; Energy metabolism; Glutamate; Glutamine; Potassium (Peng, L. (79) 128)

Cerebellum
Development; Picrotoxin; Bicuculline; Inhibitory synapse; Sprouting; Circuit reorganization (Seil, F.J. (77) 123)

Ontogeny; Carboxypeptidase H (EC 3.4.17.10); Neutral endopeptidase 24.11 (EC 3.4.24.11); Metallo endopeptidase 24.15 (EC 3.4.24.15); Cholecystokinin; Hypothalamus; Cortex (Oakes, M.G. (80) 127)

serotonin 5-HT_{1A} receptor mRNA (Miquel, M.C. (80) 149)

Spinocerebellar; NMDA; 2-Aminophosphovalerate; Muscimol; Map formation (Tolbert, D.L. (80) 268)

Golgi; Cell death; Purkinje cell; Granule cell (Shojaeian Zanjani, H. (82) 18)

Pituitary adenylate cyclase-activating polypeptide; Pituitary adenylate cyclase-activating polypeptide receptor; Ontogeny; External granule cell layer; Internal granule cell layer; Medulla; Quantitative autoradiography (Basille, M. (82) 81)

Adenosine A_1 receptor; Caffeine; Autoradiography; Thalamus; Hippocampus; Ontogeny; Purinergic receptor (Etzel, B.A. (82) 223)

Cerebral blood flow
Fetal behavioural state; Low-voltage electrocortical (Richardson, B.S. (81) 10)

Cerebral cortex
Substance P; Neurokinin B; Development; Gene expression; Rat (Zhang, L. (77) 23)

Calcium binding protein; Neural development; GABAergic neuron (Del Río, J.A. (81) 247)

Cell culture; Tyrosine hydroxylase; Brain-derived neurotrophic factor; Dopamine; Rat (Zhou, J. (81) 318)

Cerebral cortex of rat
TBPS-binding; $GABA_A$ receptor; Ontogenesis; β-Carboline; Benzodiazepine; Bicuculline (Giorgi, O. (80) 73)

Cerebral development
Heparin-binding growth factor; Pleiotrophin; Midkine; Immunocytochemistry; Rat (Matsumoto, K. (79) 229)

Cerebral hypoxia-ischemia
N-Methyl-D-aspartate; Excitotoxicity; Hyperammonemia; Meningitis; Neonate (Trescher, W.H. (83) 224)

Cerebral ischemia
Periventricular leukomalacia; Neonate; Dog; Carotid artery occlusion (Yoshioka, H. (78) 273)

Cervical spinal cord
Corticospinal tract; Transient projection; Postnatal development; Rat (Curfs, M.H.J.M. (78) 182)

c-*fos*
c-*jun*; Heat shock protein; Hypoxia; Ischemia; Neonatal; Developmental brain injury; Immediate early gene; In situ hybridization (Munell, F. (77) 111)

Chick
Hyperstriatum ventrale; Intermediate part of the hyperstriatum ventrale; Medial part of the hyperstriatum ventrale; Synapse; Visual experience; Plasticity (Bradley, P.M. (80) 295)

Ubiquitin; Embryo; Neuronal; Differentiation; Neural crest (Smith-Thomas, L.C. (81) 171)

Retina; Amacrine cell; Voltage-dependent current; Excitatory amino acid; GABA (Yamashita, M. (82) 95)

Neural cell adhesion molecules; Development; Ig superfamily; Axon pathfinding (Sakurai, T. (83) 99)

Chick embryo
Spinal cord; Cholinergic; Norepinephrine; Serotonin; Dopamine; Modulatory influence (Thiriet, G. (78) 102)

Somatostatin; Olfactory–forebrain region; Development; Immunohistochemistry; LHRH neuron; Cell migration (Murakami, S. (82) 277)

Chicken cortical neuron
Excitatory amino acid receptor pharmacology; Non-NMDA antagonist; GYKI 52466; Cell culture; Whole-cell patch-clamp technique (Osipenko, O. (77) 257)

Chicken GnRH II
Luteinizing hormone-releasing hormone; FMRFamide; Olfactory placode; Nervus terminalis; Brain-pituitary-gonad axis; Posterior tubercle (Northcutt, R.G. (78) 279)

Cholecystokinin
Ontogeny; Carboxypeptidase H (EC 3.4.17.10); Neutral endopeptidase 24.11 (EC 3.4.24.11); Metallo endopeptidase 24.15 (EC 3.4.24.15); Hypothalamus; Cortex; Cerebellum (Oakes, M.G. (80) 127)

Choline acetyltransferase
Mouse; Adrenal; Medulla; Hippocampus; Synapse; Morphometry; PNMT; Acetylcholinesterase; Neuron-specific enolase; Immunocytochemistry (Jousselin-Hosaja, M. (79) 321)

Nerve growth factor; Programmed cell death; Depolarization; Acetylcholinesterase (Nakamura, M. (81) 218)

Cochlea; Olivocochlear-efferent innervating; Rat (Merchán-Pérez, A. (82) 29)

Primary culture; Septum; Cholinergic neuron; Serotonin 5-HT_{1A} receptor; Immunocytochemistry; Ipsapirone (Riad, M. (82) 245)

Choline acetyltransferase activity
Nerve growth factor; Neurotrophin; Acetylcholinesterase; Neuronal survival; Central cholinergic neuron; Postnatal neuron (Nonner, D. (79) 219)

Cholinergic
Chick embryo; Spinal cord; Norepinephrine; Serotonin; Dopamine; Modulatory influence (Thiriet, G. (78) 102)

Medial septum; GABAergic; Basic fibroblast growth factor; Epidermal growth factor (Yokoyama, M. (78) 201)

Cholinergic cell
Low-affinity NGF receptor; $p75^{LNGFR}$; Trophic factor; Recovery of function; Regeneration (Van Eden, C.G. (82) 167)

Cholinergic development
Septal nucleus; Hippocampal cholinergic neurostimulating peptide; Nerve growth factor (Ojika, K. (79) 1)

Cholinergic neuron
Primary culture; Septum; Choline acetyltransferase; Serotonin 5-HT_{1A} receptor; Immunocytochemistry; Ipsapirone (Riad, M. (82) 245)

Cholinotoxin
Acetylcholine; Brain development; AF64A; Hemicholinium-3; Spatial learning/memory (Brake, W.G. (83) 289)

Choroid plexus
Peking duck; Subfornical organ; Anteroventral third ventricular region; AV3V region; Paraventricular nucleus; Limbic system; ANGII; Angiotensin II; Angiotensin receptor (Müller, A.R. (78) 10)

Chromaffin cell
Adrenal medulla; GAP-43; Neuroendocrine; Noradrenergic; Adrenergic (Grant, N.J. (82) 265)

Chronic hypoxia
Carbon monoxide; Ornithine decarboxylase; Polyamine; Fetus (Packianathan, S. (83) 138)

Circuit reorganization
Cerebellum; Development; Picrotoxin; Bicuculline; Inhibitory synapse; Sprouting (Seil, F.J. (77) 123)

c-jun
c-fos; Heat shock protein; Hypoxia; Ischemia; Neonatal; Developmental brain injury; Immediate early gene; In situ hybridization (Munell, F. (77) 111)

$^{36}Cl^-$ influx
Cortical cultured neuron; $GABA_A$-benzodiazepine receptor ionophore complex (Hu, X.-J. (80) 137)

Clonidine
Functional teratology; In vivo microdialysis; Noradrenaline overflow; Monoamine metabolism; α_2-Autoreceptor; Idazoxan; Yohimbine (Van Veldhuizen, M.J.A. (79) 275)

CNS development
Glycoconjugate; Vomeronasal organ; Olfactory bulb; Monoclonal antibody; Axonal guidance (Schwarting, G.A. (78) 191)

Cocaethylene
Cocaine; Norcocaine; Muscarinic receptor; Phosphoinositide metabolism (Tan, X.X. (79) 132)

Cocaine
Synaptosome; Inhibition; Fenfluramine; 3,4-Methylenedioxymethamphetamine; Transporter (Kramer, K. (78) 142)

Norcocaine; Cocaethylene; Muscarinic receptor; Phosphoinositide metabolism (Tan, X.X. (79) 132)

Dopamine; Transporter; Photoaffinity; Development; Glycosylation; Striatum (Patel, A.P. (83) 53)

Cochlea
Choline acetyltransferase; Olivocochlear-efferent innervating; Rat (Merchán-Pérez, A. (82) 29)

Cochlear nucleus
Spherical cell; Guinea pig; Deafferentation (Dodson, H.C. (80) 261)

Cockayne's syndrome
ERCC3; Excision repair cross-complementing; Excision repair gene; Neurological development (Hubank, M. (81) 66)

Collateral
Corticospinal tract; Target finding; Pathway formation; Horseradish peroxidase; DiI; Spinal cord (Joosten, E.A.J. (79) 122)

Color-specific cone
Experimental retinal transplantation; Photoreceptor development; Immunocytochemistry (Szél, Á. (81) 1)

Column
Retina; Ontogenesis; Morphometry; Radial glia; Stem cell (Reichenbach, A. (79) 72)

Compensatory neural growth
Olfactory receptor neuron; Basal cell; Olfactory neural development; Thyroid hormone; Thyroid and neural development; Developmental plasticity; Recovery from neural retardation; Neuronal proliferation and migration (Paternostro, M.A. (83) 151)

Complement system
C1q; C4; In situ hybridization; Microglia; Apoptosis (Johnson, S.A. (80) 163)

μ Conotoxin
Diaphragm; Endplate potential; Respiratory failure (Bazzy, A.R. (81) 314)

ω-Conotoxin GVIA
N-type calcium channel; Autoradiography; Rat brain development (Filloux, F. (78) 131)

Conspecific threat
Preweanling rat; Behavioral inhibition; Freezing; Ultrasonic vocalization; Social isolation; Adrenal steroid; Corticosterone; Adrenalectomy (Takahashi, L.K. (81) 121)

Controllable oncogene
Neuronal immortalization; APUD cell; Serotonin; Trophic effect; Retinoic acid (Stringer, B.M.J. (79) 267)

Coordination
Locomotion; Gait; Kinematics; Neonatal rat; Ontogeny; L-DOPA; Dynamical system (Stehouwer, D.J. (82) 143)

Copper
Menkes' disease; Serotonin; Norepinephrine; Dopamine; Heterotypic sprouting; Mouse (Martin, P. (77) 215)

Corpus callosum
Anterior commissure; Prenatal development; Inbred strain; Recombinant inbred strain; Morphometry (Wahlsten, D. (77) 203)

Epilepsy; Development; Neural activity (Grigonis, A.M. (77) 251)

Cortex
Gap junction; Sodium channel; Patch-clamp; Development; Tetrodotoxin; Telencephalon (Mienville, J.-M. (77) 89)

Ontogeny; Carboxypeptidase H (EC 3.4.17.10); Neutral endopeptidase 24.11 (EC 3.4.24.11); Metallo endopeptidase 24.15 (EC 3.4.24.15); Cholecystokinin; Hypothalamus; Cerebellum (Oakes, M.G. (80) 127)

Neurotrophin-4/5; Brain-derived neurotrophic factor; GABA; Calbindin; Neuronal culture; Immunohistochemistry (Widmer, H.R. (80) 279)

Aromatase; Testosterone; Estradiol; Hypothalamus; Preoptic area; Amygdala; Ontogeny; Aggression (Compaan, J.C. (82) 185)

Cortical cultured neuron
$GABA_A$-benzodiazepine receptor ionophore complex; $^{36}Cl^-$ influx (Hu, X.-J. (80) 137)

Cortical development
Ochratoxin A; Microcephaly; Synapse-to-neuron ratio; Somatosensory cortex; Visual cortex (Miki, T. (82) 259)

Cortical module
Medial geniculate body; Neocortical development; Biocytin (De Venecia, R.K. (81) 135)

Cortical plasticity
Astrocyte; Intermediate filament; Development; Area 17; *Callithrix jacchus*; Immunohistochemistry (Missler, M. (82) 103)

Cortical thickness
Dorsomedial nucleus; Volumetry; Cytoarchitecture; Excitatory amino acid (Van Eden, C.G. (80) 26)

Corticospinal tract
Transient projection; Postnatal development; Cervical spinal cord; Rat (Curfs, M.H.J.M. (78) 182)

Guidance; Neural cell adhesion molecule; Target innervation; Rat; Immunocytochemistry (Joosten, E.A.J. (78) 226)

Target finding; Collateral; Pathway formation; Horseradish peroxidase; DiI; Spinal cord (Joosten, E.A.J. (79) 122)

Corticosterone
Preweanling rat; Behavioral inhibition; Freezing; Ultrasonic vocalization; Conspecific threat; Social isolation; Adrenal steroid; Adrenalectomy (Takahashi, L.K. (81) 121)

C1q
Complement system; C4; In situ hybridization; Microglia; Apoptosis (Johnson, S.A. (80) 163)

Cranial motoneuron
Insulin-like growth factor; Muscle-derived neurotrophic factor; Facial nucleus; Hypoglossal nucleus; Sensory brainstem structure; Lumbar muscle; Tongue; Trophic effect (Eustache, I. (81) 284)

Critical period
Visual system; Interocular interaction; Plasticity (Serfaty, C.A. (82) 35)

cyclic AMP
Differentiation; Neuropeptide; Neurotrophin; A126-1B2 cell; Neurite (Ferriero, D.M. (80) 13)

Cytoarchitecture
Dorsomedial nucleus; Cortical thickness; Volumetry; Excitatory amino acid (Van Eden, C.G. (80) 26)

Cytochrome oxidase
2-Deoxyglucose autoradiography; Mouse somatosensory system; Whisker stimulation; Barrel cortex; Somatotopy; Development of brain function (Melzer, P. (77) 227)

Cytokine
Brain; Development; mRNA; Reverse transcriptase-PCR; Rat (Pousset, F. (81) 143)

Cytoskeleton
Growth cone; Neurite outgrowth; Identified neuron; Axonal regeneration; Helisoma (Williams, D.K. (81) 89)

D

Deafferentation
Cochlear nucleus; Spherical cell; Guinea pig (Dodson, H.C. (80) 261)

Dendrite
Superior colliculus; Nitric oxide; Plasticity; Development; NADPH-diaphorase (Vercelli, A.E. (83) 85)

Dental innervation
Nerve growth factor; Dental pulp; Mental nerve; Trigeminal ganglion; Unmyelinated fiber; Myelinated fiber (Naftel, J.P. (80) 54)

Dental pulp
Nerve growth factor; Dental innervation; Mental nerve; Trigeminal ganglion; Unmyelinated fiber; Myelinated fiber (Naftel, J.P. (80) 54)

Dentate gyrus
Mossy fiber; Synaptogenesis; Hilus; Basket cell; Hippocampus (Ribak, C.E. (79) 47)

Hippocampus; Perforant path kindling; Long-term potentiation; Paired-pulse depression; Nervous system (Trommer, B.L. (79) 115)

2-Deoxyglucose autoradiography
Cytochrome oxidase; Mouse somatosensory system; Whisker stimulation; Barrel cortex; Somatotopy; Development of brain function (Melzer, P. (77) 227)

Depolarization
Nerve growth factor; Programmed cell death; Choline acetyltransferase; Acetylcholinesterase (Nakamura, M. (81) 218)

Detour learning
Nicotine; Growth; cAMP; cAMP-dependent protein kinase; Ornithine decarboxylase; Insulin; Insulin binding (Pennington, S.N. (83) 181)

Developing CNS
Brain vessel; C-CAM; Cell adhesion; Endothelial cell; Pericyte (Sawa, H. (78) 35)

Development
Cerebral cortex; Substance P; Neurokinin B; Gene expression; Rat (Zhang, L. (77) 23)

Glutamate decarboxylase; GABA; In situ hybridization; Alternative splicing (Behar, T. (77) 77)

Gap junction; Sodium channel; Patch-clamp; Tetrodotoxin; Telencephalon; Cortex (Mienville, J.-M. (77) 89)

Cerebellum; Picrotoxin; Bicuculline; Inhibitory synapse; Sprouting; Circuit reorganization (Seil, F.J. (77) 123)

Synenkephalin; Enkephalin; Processing; Brain (Rodriguez Vida, M.I. (77) 151)

Epilepsy; Corpus callosum; Neural activity (Grigonis, A.M. (77) 251)

Human retina; Immunoreactivity; Tyrosine hydroxylase; Substance P; Neuropeptide Y; Enkephalin; Amacrine cell (Jotwani, G. (77) 285)

Blood–brain barrier; Ultrastructure; Morphometry; Vascular pore (Stewart, P.A. (78) 25)

Glutamate; Uptake; Epilepsy; Audiogenic seizure; *trans*-Pyrrolidine-2,4-dicarboxylic acid (Cordero, M.L. (78) 44)

Neurogenesis; Spinothalamic tract; Spinocerebellar tract; Spinal cord; Retrograde tracing (Beal, J.A. (78) 49)

Biosynthesis; Light-driven; Retina; Somatostatin; Somatostatin-14; Somatostatin-28 (Dowton, M. (78) 65)

Long-term depression; Phospholipase A_2; Hippocampus; Slice; Plasticity; Learning (Fitzpatrick, J.S. (78) 81)

Gonadotropin releasing hormone; Preoptic area; Terminal nerve; Soma size (Francis, R.C. (78) 151)

Fetus; Newborn; Rat; Respiratory centre; Rhythm; In vitro (Di Pasquale, E. (78) 243)

PGP 9.5; Retina; Axotomy; Rat (Chen, S.T. (78) 265)

Calbindin; Immunocytochemistry; Neuron; Nimodipine; Hippocampus; Parietal cortex; Calcium (Luiten, P.G.M. (79) 10)

Vasoactive intestinal polypeptide; Vasopressin; Human suprachiasmatic nucleus; Sexual dimorphy (Swaab, D.F. (79) 249)

GABA receptor; Substantia nigra; Seizure; GABA; Rat (Velíšková, J. (79) 297)

Olfactory system; Cell migration; Growth-associated protein; B-50/GAP-43; Immunocytochemistry (Pellier, V. (80) 63)

Primary olfactory cortex; Thymidine autoradiography; Golgi method (Valverde, F. (80) 96)

Oxytocin; Receptor; Ontogeny; Hippocampus; Stress; Maternal separation (Noonan, L.R. (80) 115)

Hippocalcin; Ca^{2+}-binding protein; Northern blot; In situ hybridization; Immunoblot; Immunohistochemistry (Saitoh, S. (80) 199)

Respiratory centre; Serotonin; Fetus; Rat; In vitro (Di Pasquale, E. (80) 222)

Electromyography; Soleus; Motor unit; Rat (Westerga, J. (80) 233)

Mossy fiber; Synapse; Electron microscopy; Roller tube (Robain, O. (80) 244)

Visual system; Plasticity; Synaptogenesis; Immunohistochemistry; Optic nerve (Kapfhammer, J.P. (80) 251)

NMDA; Neocortex; Glutamate; Magnesium; Patch clamp (Burgard, E.C. (80) 275)

Brain; Neuropeptide; Hypothalamus; Neurotensin (Scarcériaux, V. (81) 128)

Brain; Cytokine; mRNA; Reverse transcriptase-PCR; Rat (Pousset, F. (81) 143)

Neuron-specific enolase; Retina; Immunocytochemistry; Rat (Fujieda, H. (82) 69)

Plasticity; Dopamine β-hydroxylase; Cat; Visual cortex (Liu, Y. (82) 90)

Astrocyte; Intermediate filament; Area 17; Cortical plasticity; *Callithrix jacchus*; Immunohistochemistry (Missler, M. (82) 103)

Sensory neuron; Dorsal horn; Axonal growth; Dorsal root ganglion (Mendelson, B. (82) 152)

Baboon; Brainstem auditory evoked response; Infant (Edwards, D.A. (82) 181)

Somatostatin; Olfactory–forebrain region; Immunohistochemistry; LHRH neuron; Cell migration; Chick embryo (Murakami, S. (82) 277)

Neural crest; Sensory neuron; Capsaicin; Histochemistry (Matsumoto, S.G. (83) 17)

Dopamine; Transporter; Cocaine; Photoaffinity; Glycosylation; Striatum (Patel, A.P. (83) 53)

Superior colliculus; Nitric oxide; Plasticity; Dendrite; NADPH-diaphorase (Vercelli, A.E. (83) 85)

Neural cell adhesion molecules; Ig superfamily; Axon pathfinding; Chick (Sakurai, T. (83) 99)

NMDA; D-AP5; Whole-cell voltage-clamp recording; Schild analysis; Hippocampus; Brain slice; Receptor diversity (Brady, R.J. (83) 190)

Striatum; Bromodeoxyuridine; Patch matrix; Birthdating; Neuronal migration (Song, D.D. (83) 233)

Enkephalin; Substance P; Neuropeptide; Striatum; Extended amygdala (Song, D.D. (83) 247)

Nicotine; In utero; Prenatal; Neurotoxicity; Hormone; ACTH; Prolactin (Poland, R.E. (83) 278)

P0 protein mRNA; Spinal root; Sciatic nerve; In situ hybridization (Baron, P. (83) 285)

Developmental brain injury
c-*fos*; c-*jun*; Heat shock protein; Hypoxia; Ischemia; Neonatal; Immediate early gene; In situ hybridization (Munell, F. (77) 111)

Developmental plasticity
Olfactory receptor neuron; Basal cell; Olfactory neural development; Thyroid hormone; Thyroid and neural development; Recovery from neural retardation; Compensatory neural growth; Neuronal proliferation and migration (Paternostro, M.A. (83) 151)

Development of brain
Pyruvate dehydrogenase; Expression; Mouse embryo; Energy metabolism; Brain malformation; Pyruvate dehydrogenase deficiency; Central nervous system (Takakubo, F. (77) 63)

Development of brain function
2-Deoxyglucose autoradiography; Cytochrome oxidase; Mouse somatosensory system; Whisker stimulation; Barrel cortex; Somatotopy (Melzer, P. (77) 227)

Development / ontogeny
Dopamine; Microdialysis; Quinpirole; Autoreceptor; Potassium; Sulpiride; Dopamine D_2 receptor (Andersen, S.L. (78) 123)

Diaphragm
μ Conotoxin; Endplate potential; Respiratory failure (Bazzy, A.R. (81) 314)

Differentiation
cyclic AMP; Neuropeptide; Neurotrophin; A126-1B2 cell; Neurite (Ferriero, D.M. (80) 13)

Proteoglycan; Neurite promoting; Heparan sulphate (Dow, K.E. (80) 175)

Ubiquitin; Chick; Embryo; Neuronal; Neural crest (Smith-Thomas, L.C. (81) 171)

Neurotransmitter; Neural crest; Survival; Immunohistochemistry (Matsumoto, S.G. (83) 1)

Diffusion
Phosphocreatine; Maturation; Nuclear magnetic resonance; Taurine; *N*-Acetylaspartate (Nakada, T. (80) 121)

DiI
Corticospinal tract; Target finding; Collateral; Pathway formation; Horseradish peroxidase; Spinal cord (Joosten, E.A.J. (79) 122)

Barrel; Neuronal activity; Tetrodotoxin; Trigeminal system; Serotonin (Chiaia, N.L. (79) 301)

DiI tracing
Quantitative electron microscopy; Thyroid hormone; Loyez stain (Guadaño Ferraz, A. (81) 293)

Disruption
Ectopia; Neocortex; Dreher mouse (Sekiguchi, M. (77) 37)

Dog
Periventricular leukomalacia; Neonate; Carotid artery occlusion; Cerebral ischemia (Yoshioka, H. (78) 273)

L-DOPA
Noradrenaline; Prazosin; Idazoxan; Locomotion; Air-stepping (Taylor, L.L. (79) 242)

Locomotion; Ontogeny; Gait; Neonatal rat (McCrea, A.E. (82) 136)

Locomotion; Gait; Kinematics; Coordination; Neonatal rat; Ontogeny; Dynamical system (Stehouwer, D.J. (82) 143)

Dopamine
Menkes' disease; Serotonin; Norepinephrine; Heterotypic sprouting; Mouse; Copper (Martin, P. (77) 215)

Chick embryo; Spinal cord; Cholinergic; Norepinephrine; Serotonin; Modulatory influence (Thiriet, G. (78) 102)

Development/ontogeny; Microdialysis; Quinpirole; Autoreceptor; Potassium; Sulpiride; Dopamine D_2 receptor (Andersen, S.L. (78) 123)

Gonadal hormone; Castration; Neonatal lesion; Hippocampus; Ibotenic acid; Amphetamine; Stereotypy; Apomorphine (Lipska, B.K. (78) 253)

Electrophysiology; Nucleus accumbens; Ventral tegmental area; Mesoaccumbens; Ontogeny; Tegmentum mesencephali (Wang, L. (79) 19)

Cell culture; Tyrosine hydroxylase; Brain-derived neurotrophic factor; Cerebral cortex; Rat (Zhou, J. (81) 318)

Nicotine; Norepinephrine (Seidler, F.J. (82) 1)

Transporter; Cocaine; Photoaffinity; Development; Glycosylation; Striatum (Patel, A.P. (83) 53)

Brain injury; Dynorphin A; Hypoxia; Ischemia; Neuropeptide Y; Substance P (Johnson, M. (83) 109)

Opioid peptide; Nigrostriatal pathway; Postnatal development (Pickel, V.M. (83) 163)

Dopamine β-hydroxylase
Plasticity; Development; Cat; Visual cortex (Liu, Y. (82) 90)

Dopamine D_2 receptor
Dopamine; Development/ontogeny; Microdialysis; Quinpirole; Autoreceptor; Potassium; Sulpiride (Andersen, S.L. (78) 123)

Dopamine receptor
Ontogeny; Preproenkephalin mRNA expression; cAMP production; Haloperidol; Metenkephalin; Opioid receptor (De Vries, T.J. (78) 175)

Dorsal horn
NADPH-diaphorase; Nitric oxide synthase; Lateral collateral pathway; Sacral parasympathetic nucleus; Lumbosacral spinal cord (Vizzard, M.A. (81) 201)

Sensory neuron; Development; Axonal growth; Dorsal root ganglion (Mendelson, B. (82) 152)

Dorsal raphe nucleus
Neuroplasticity; Serotonin 5-HT_{1A} receptor; Neonatal 5,7-dihydroxytryptamine; 8-hydroxy-DPAT (Pranzatelli, M.R. (80) 1)

Dorsal root ganglion
Calcitonin gene-related peptide; Ontogeny; Capsaicin; Resiniferatoxin (Jakab, G. (80) 290)

Neurotrophin-3; Calcium-binding protein; Parvalbumin; Calretinin; Calbindin-D28k; Neurotrophic factor (Copray, J.C.V.M. (81) 57)

Sensory neuron; Dorsal horn; Development; Axonal growth (Mendelson, B. (82) 152)

Dorsomedial nucleus
Cortical thickness; Volumetry; Cytoarchitecture; Excitatory amino acid (Van Eden, C.G. (80) 26)

Down-regulation
Ontogenesis; Opioid receptor; Buprenorphine; Rat central nervous system; Opioid peptide; In utero drug exposure (Belcheva, M.M. (80) 158)

Estrogen receptor; Facial nucleus; In situ hybridization histochemistry; Immunohistochemistry; Newborn rat; Transient expression (Orikasa, C. (82) 9)

Dreher mouse
Ectopia; Disruption; Neocortex (Sekiguchi, M. (77) 37)

Dynamical system
Locomotion; Gait; Kinematics; Coordination; Neonatal rat; Ontogeny; L-DOPA (Stehouwer, D.J. (82) 143)

Dynorphin A
Brain injury; Dopamine; Hypoxia; Ischemia; Neuropeptide Y; Substance P (Johnson, M. (83) 109)

E

Ectopia
Disruption; Neocortex; Dreher mouse (Sekiguchi, M. (77) 37)

Electromyography
Development; Soleus; Motor unit; Rat (Westerga, J. (80) 233)

Electron microscopy
Mossy fiber; Synapse; Development; Roller tube (Robain, O. (80) 244)

Receptor; Glutamate; Non-NMDA; Ontogenesis; Thalamus (Spreafico, R. (82) 231)

Electrophysiology
Dopamine; Nucleus accumbens; Ventral tegmental area; Mesoaccumbens; Ontogeny; Tegmentum mesencephali (Wang, L. (79) 19)

Embryo
Ubiquitin; Chick; Neuronal; Differentiation; Neural crest (Smith-Thomas, L.C. (81) 171)

Embryonic development
GABA; Retina; Turtle; Neurotransmitter; Immunohistochemistry (Versaux-Botteri, C. (83) 125)

Embryonic transplant
Neuroblast; Immortalization; Bromodeoxyuridine (Cattaneo, E. (83) 197)

Endothelial cell
Brain vessel; C-CAM; Cell adhesion; Developing CNS; Pericyte (Sawa, H. (78) 35)

Endotoxin
Hypothalamic-pituitary-adrenal; Gonadal steroid; Ontogeny (Shanks, N. (79) 260)

Endplate development
Neuromuscular development; Synapse elimination; Acetylcholinesterase; Non-specific cholinesterase; Neurotrophic influence (Feng, Y. (79) 151)

Endplate potential
Diaphragm; μ Conotoxin; Respiratory failure (Bazzy, A.R. (81) 314)

Energy metabolism
Pyruvate dehydrogenase; Expression; Mouse embryo; Development of brain; Brain malformation; Pyruvate dehydrogenase deficiency; Central nervous system (Takakubo, F. (77) 63)

Astrocyte; Glycogen; Glycogenolysis; Glycolysis; Memory stage; Noradrenaline; Passive avoidance learning; Reinforcement (O'Dowd, B.S. (78) 137)

Alanine; Cerebellar granule cell; Glutamate; Glutamine; Potassium (Peng, L. (79) 128)

Astrocyte; ATP; Ischemia; Neonatal brain damage; Phosphocreatine (Yager, J.Y. (82) 62)

Enkephalin
Synenkephalin; Processing; Brain; Development (Rodriguez Vida, M.I. (77) 151)

Human retina; Development; Immunoreactivity; Tyrosine hydroxylase; Substance P; Neuropeptide Y; Amacrine cell (Jotwani, G. (77) 285)

Calcitonin gene-related peptide; Galanin; Growth-associated protein; Immunohistochemistry; In situ hybridization; Neurofilament; Neuropeptide Y; Neurotensin; Plasticity (Holgert, H. (83) 35)

Substance P; Neuropeptide; Development; Striatum; Extended amygdala (Song, D.D. (83) 247)

Epidermal growth factor
Medial septum; Cholinergic; GABAergic; Basic fibroblast growth factor (Yokoyama, M. (78) 201)

Epilepsy
Corpus callosum; Development; Neural activity (Grigonis, A.M. (77) 251)

Glutamate; Uptake; Audiogenic seizure; Development; *trans*-Pyrrolidine-2,4-dicarboxylic acid (Cordero, M.L. (78) 44)

NMDA receptor-channel complex; Schizophrenia; Rat (Sircar, R. (81) 185)

Epileptic afterdischarge
Hippocampus; Wet dog shake; Ketamine; Rat; Ontogeny (Mikolášová, R. (81) 105)

ERCC3
Excision repair cross-complementing; Excision repair gene; Cockayne's syndrome; Neurological development (Hubank, M. (81) 66)

Estradiol
Aromatase; Testosterone; Hypothalamus; Preoptic area; Amygdala; Cortex; Ontogeny; Aggression (Compaan, J.C. (82) 185)

Estrogen
Sexual differentiation; Zebra finch; Birdsong; Higher vocal center; Neurogenesis (Burek, M.J. (78) 57)

Estrogen receptor
Brain development; Sexual differentiation; Preoptic area; mRNA; In situ hybridization histochemistry (DonCarlos, L.L. (79) 283)

Facial nucleus; In situ hybridization histochemistry; Immunohistochemistry; Newborn rat; Transient expression; Down-regulation (Orikasa, C. (82) 9)

Excision repair cross-complementing
ERCC3; Excision repair gene; Cockayne's syndrome; Neurological development (Hubank, M. (81) 66)

Excision repair gene
ERCC3; Excision repair cross-complementing; Cockayne's syndrome; Neurological development (Hubank, M. (81) 66)

Excitatory amino acid
Dorsomedial nucleus; Cortical thickness; Volumetry; Cytoarchitecture (Van Eden, C.G. (80) 26)

Chick; Retina; Amacrine cell; Voltage-dependent current; GABA (Yamashita, M. (82) 95)

Neonatal; Brain damage; Ischemia; Hypoxia; Glutamate release inhibition; BW1003C87 (Gilland, E. (83) 79)

Excitatory amino acid receptor pharmacology
Non-NMDA antagonist; GYKI 52466; Chicken cortical neuron; Cell culture; Whole-cell patch-clamp technique (Osipenko, O. (77) 257)

Excitatory postsynaptic potential
Infant seizure; Hippocampal slice; Paired-pulse facilitation (Zhao, D. (80) 190)

Excitotoxicity
Motoneuron; Axotomy; Target deprivation (Greensmith, L. (81) 162)

N-Methyl-D-aspartate; Cerebral hypoxia-ischemia; Hyperammonemia; Meningitis; Neonate (Trescher, W.H. (83) 224)

Experimental retinal transplantation
Photoreceptor development; Color-specific cone; Immunocytochemistry (Szél, Á. (81) 1)

Expression
Pyruvate dehydrogenase; Mouse embryo; Development of brain; Energy metabolism; Brain malformation; Pyruvate dehydrogenase deficiency; Central nervous system (Takakubo, F. (77) 63)

δ Opioid receptor; Weaning; Ontogeny; Naltriben; δ Subtype (Kitchen, I. (78) 147)

Extended amygdala
Enkephalin; Substance P; Neuropeptide; Development; Striatum (Song, D.D. (83) 247)

External granule cell layer
Pituitary adenylate cyclase-activating polypeptide; Pituitary adenylate cyclase-activating polypeptide receptor; Cerebellum; Ontogeny; Internal granule cell layer; Medulla; Quantitative autoradiography (Basille, M. (82) 81)

Extracellular matrix
Growth cone; Growth cone collapse; Microtubule (Miller, J.D. (79) 203)

Retina; Regeneration; Frog; Laminin; Heparan sulfate proteoglycan (Nagy, T. (81) 131)

Extrastriate cortex
γ-Aminobutyric acidergic neuron; Parvalbumin; Calbindin; Striate cortex (Hogan, D. (77) 1)

F

Facial nucleus
Insulin-like growth factor; Muscle-derived neurotrophic factor; Hypoglossal nucleus; Cranial motoneuron; Sensory brainstem structure; Lumbar muscle; Tongue; Trophic effect (Eustache, I. (81) 284)

Estrogen receptor; In situ hybridization histochemistry; Immunohistochemistry; Newborn rat; Transient expression; Down-regulation (Orikasa, C. (82) 9)

Fenfluramine
Synaptosome; Inhibition; Cocaine; 3,4-Methylenedioxymethamphetamine; Transporter (Kramer, K. (78) 142)

Ferret
Androgen receptor; Hypothalamus; Immunocytochemistry; Puberty; Reproductive behavior; Testosterone (Kashon, M.L. (78) 237)

Fetal behavioural state
Cerebral blood flow; Low-voltage electrocortical (Richardson, B.S. (81) 10)

Fetal stress
Tyrosine hydroxylase; Human hypothalamus; Paraventricular nucleus; Supraoptic nucleus; Oxytocin; Vasopressin; Perinatal hypoxia (Panayotacopoulou, M.T. (83) 59)

Fetus
Newborn; Rat; Respiratory centre; Development; Rhythm; In vitro (Di Pasquale, E. (78) 243)

Respiratory centre; Serotonin; Rat; Development; In vitro (Di Pasquale, E. (80) 222)

Chronic hypoxia; Carbon monoxide; Ornithine decarboxylase; Polyamine (Packianathan, S. (83) 138)

Fibroblast growth factor
Neural crest cell; Neurofilament; Neuronal differentiation; Peripherin; Tetanus toxin C (Bannerman, P.G. (83) 146)

Fibronectin
Oligodendrocyte; Astrocyte; Proteolipid protein; Vimentin; Smooth muscle myosin (Fujii, J.T. (78) 217)

Fine primary afferent fiber
Intracellular free calcium; NMDA receptor; Spinal cord dorsal horn; Substantia gelatinosa; Postnatal development; Capsaicin (Hori, Y. (80) 141)

Fluorescent neuronal tracer
Postnatal development; Spinal motoneuron; Cell body size; Oxidative enzyme activity; Tibialis anterior muscle; Histochemistry; Rat (Ishihara, A. (83) 28)

FMRFamide
Luteinizing hormone-releasing hormone; Chicken GnRH II; Olfactory placode; Nervus terminalis; Brain-pituitary-gonad axis; Posterior tubercle (Northcutt, R.G. (78) 279)

Foliation
Cerebellar development; Neonatal ovariectomy; Ovarian sex steroid; Granule cell; Purkinje cell; Neurogenesis; Neuronal death (Litteria, M. (81) 113)

Forebrain
Sodium channel; Saxitoxin receptor; Saxitoxin affinity; Single channel; mRNA (Villegas, R. (81) 26)

Freezing
Preweanling rat; Behavioral inhibition; Ultrasonic vocalization; Conspecific threat; Social isolation; Adrenal steroid; Corticosterone; Adrenalectomy (Takahashi, L.K. (81) 121)

Freezing injury
Radial glia; Astrocyte; Microgyria; Brain damage; Neocortex (Rosen, G.D. (82) 127)

Frog
Retina; Regeneration; Extracellular matrix; Laminin; Heparan sulfate proteoglycan (Nagy, T. (81) 131)

Frontal cortex
Serotonin; Postnatal handling; Glucocorticoid receptor; serotonin 5-HT_2 receptor; Hippocampus (Smythe, J.W. (80) 183)

Functional teratology
Clonidine; In vivo microdialysis; Noradrenaline overflow; Monoamine metabolism; α_2-Autoreceptor; Idazoxan; Yohimbine (Van Veldhuizen, M.J.A. (79) 275)

Fura-2
Calcium; Calcium current; $[Ca^{2+}]_i$; Hypothalamus; Rat; Somatostatin (Desarménien, M.G. (79) 85)

G

GABA
Glutamate decarboxylase; In situ hybridization; Alternative splicing; Development (Behar, T. (77) 77)

Rabbit retina; Horizontal cell; In vitro differentiation; Morphological differentiation; Neurofilament (Löhrke, S. (77) 97)

Puberty; Hypothalamus; Amino acid neurotransmitter; Aspartate; Glutamate; Homocysteic acid; Taurine; Glycine (Goroll, D. (77) 183)

GABA receptor; Substantia nigra; Seizure; Rat; Development (Velíšková, J. (79) 297)

Neurotrophin-4/5; Brain-derived neurotrophic factor; Calbindin; Neuronal culture; Immunohistochemistry; Cortex (Widmer, H.R. (80) 279)

Chick; Retina; Amacrine cell; Voltage-dependent current; Excitatory amino acid (Yamashita, M. (82) 95)

Embryonic development; Retina; Turtle; Neurotransmitter; Immunohistochemistry (Versaux-Botteri, C. (83) 125)

$GABA_A$-benzodiazepine receptor ionophore complex
Cortical cultured neuron; $^{36}Cl^-$ influx (Hu, X.-J. (80) 137)

GABAergic
Medial septum; Cholinergic; Basic fibroblast growth factor; Epidermal growth factor (Yokoyama, M. (78) 201)

GABAergic neuron
Calcium binding protein; Cerebral cortex; Neural development (Del Río, J.A. (81) 247)

GABAergic synapse
Synaptogenesis; Central neuron; Glutamatergic synapse; Synapsin I; Miniature synaptic current; Tetrodotoxin (Gottmann, K. (81) 77)

GABA receptor
Substantia nigra; Seizure; GABA; Rat; Development (Velíšková, J. (79) 297)

$GABA_A$ receptor
Granule cell; Hippocampus; Inhibition; Paired-pulse depression (DiScenna, P.G. (77) 295)

TBPS-binding; Ontogenesis; β-Carboline; Benzodiazepine; Bicuculline; Cerebral cortex of rat (Giorgi, O. (80) 73)

Gait
Locomotion; L-DOPA; Ontogeny; Neonatal rat (McCrea, A.E. (82) 136)

Locomotion; Kinematics; Coordination; Neonatal rat; Ontogeny; L-DOPA; Dynamical system (Stehouwer, D.J. (82) 143)

Galanin
Calcitonin gene-related peptide; Enkephalin; Growth-associated protein; Immunohistochemistry; In situ hybridization; Neurofilament; Neuropeptide Y; Neurotensin; Plasticity (Holgert, H. (83) 35)

Ganglioside
Growth cone membrane; *O*-Acetylated ganglioside; Brain development; Rat forebrain; Axonal growth (Igarashi, M. (78) 17)

GAP-43
Adrenal medulla; Neuroendocrine; Noradrenergic; Adrenergic; Chromaffin cell (Grant, N.J. (82) 265)

Gap junction
Sodium channel; Patch-clamp; Development; Tetrodotoxin; Telencephalon; Cortex (Mienville, J.-M. (77) 89)

Gene expression
Cerebral cortex; Substance P; Neurokinin B; Development; Rat (Zhang, L. (77) 23)

Tubulin mRNA; Tau; MAP1B; MAP1A; β-Tubulin (Oblinger, M.M. (77) 45)

Glucocorticoid; Steroid receptor; Neural ontogeny; Adrenal (Bohn, M.C. (77) 157)

Geniculocortical projection
Cat; Growth factor; Mouse; Organotypic culture; Target recognition (Lotto, R.B. (81) 17)

Glial cell
Growth factor; Retina; Müller cell; Proliferation; Tissue culture (Scherer, J. (80) 209)

Glial fibrillary acidic protein
Retinal transplantation; Human retina; Cell marker; Neuron-specific enolase; Synaptophysin; S-Antigen; Rhodopsin; α-Transducin; Vimentin; Cellular retinaldehyde-binding protein (Seiler, M.J. (80) 81)

Glucocorticoid
Steroid receptor; Gene expression; Neural ontogeny; Adrenal (Bohn, M.C. (77) 157)

Glucocorticoid receptor
Serotonin; Postnatal handling; serotonin 5-HT_2 receptor; Hippocampus; Frontal cortex (Smythe, J.W. (80) 183)

α-Glucosidase inhibition
Castanospermine; Sympathetic nerve; Neurite growth; Inhibition; Regeneration (Abotomey, C. (79) 101)

Glutamate
Puberty; Hypothalamus; Amino acid neurotransmitter; Aspartate; Homocysteic acid; Taurine; Glycine; GABA (Goroll, D. (77) 183)

Uptake; Epilepsy; Audiogenic seizure; Development; *trans*-Pyrrolidine-2,4-dicarboxylic acid (Cordero, M.L. (78) 44)

Alanine; Energy metabolism; Cerebellar granule cell; Glutamine; Potassium (Peng, L. (79) 128)

NMDA; Neocortex; Development; Magnesium; Patch clamp (Burgard, E.C. (80) 275)

Receptor; Non-NMDA; Ontogenesis; Thalamus; Electron microscopy (Spreafico, R. (82) 231)

Glutamate decarboxylase
GABA; In situ hybridization; Alternative splicing; Development (Behar, T. (77) 77)

Glutamate release inhibition
Neonatal; Brain damage; Ischemia; Hypoxia; Excitatory amino acid; BW1003C87 (Gilland, E. (83) 79)

Glutamatergic synapse
Synaptogenesis; Central neuron; GABAergic synapse; Synapsin I; Miniature synaptic current; Tetrodotoxin (Gottmann, K. (81) 77)

Glutamine
Alanine; Energy metabolism; Cerebellar granule cell; Glutamate; Potassium (Peng, L. (79) 128)

Glycine
Puberty; Hypothalamus; Amino acid neurotransmitter; Aspartate; Glutamate; Homocysteic acid; Taurine; GABA (Goroll, D. (77) 183)

Glycoconjugate
Bandeiraea simplicifolia lectin-I; *Vicia villosa* agglutinin; Vomeronasal system (Ichikawa, M. (78) 1)

Vomeronasal organ; Olfactory bulb; Monoclonal antibody; Axonal guidance; CNS development (Schwarting, G.A. (78) 191)

Glycogen
Astrocyte; Energy metabolism; Glycogenolysis; Glycolysis; Memory stage; Noradrenaline; Passive avoidance learning; Reinforcement (O'Dowd, B.S. (78) 137)

Glycogenolysis
Astrocyte; Energy metabolism; Glycogen; Glycolysis; Memory stage; Noradrenaline; Passive avoidance learning; Reinforcement (O'Dowd, B.S. (78) 137)

Glycolysis
Astrocyte; Energy metabolism; Glycogen; Glycogenolysis; Memory stage; Noradrenaline; Passive avoidance learning; Reinforcement (O'Dowd, B.S. (78) 137)

Glycosylation
Dopamine; Transporter; Cocaine; Photoaffinity; Development; Striatum (Patel, A.P. (83) 53)

cGMP
Nitric oxide synthase; Guanylyl cyclase; In situ hybridization; Nitric oxide (Giuili, G. (81) 269)

Golgi
Cerebellum; Cell death; Purkinje cell; Granule cell (Shojaeian Zanjani, H. (82) 18)

Golgi method
Primary olfactory cortex; Thymidine autoradiography; Development (Valverde, F. (80) 96)

Gonadal hormone
Castration; Neonatal lesion; Hippocampus; Ibotenic acid; Amphetamine; Stereotypy; Apomorphine; Dopamine (Lipska, B.K. (78) 253)

Gonadal steroid
Hypothalamic-pituitary-adrenal; Endotoxin; Ontogeny (Shanks, N. (79) 260)

Gonadotropin releasing hormone
Preoptic area; Terminal nerve; Soma size; Development (Francis, R.C. (78) 151)

G-protein
Thyroid hormone; Methimazole; Neonate; Immunoblotting (Wong, C.C. (79) 136)

Granule cell
$GABA_A$ receptor; Hippocampus; Inhibition; Paired-pulse depression (DiScenna, P.G. (77) 295)

Cerebellar development; Neonatal ovariectomy; Ovarian sex steroid; Purkinje cell; Foliation; Neurogenesis; Neuronal death (Litteria, M. (81) 113)

Cerebellum; Golgi; Cell death; Purkinje cell (Shojaeian Zanjani, H. (82) 18)

Granule cell development
Pediatric epilepsy; Hippocampus; Mossy fiber sprouting; Neuron loss (Mathern, G.W. (78) 70)

Greig cephalopolysyndactyly
Arhinencephaly; Olfactory blub; Luteinizing hormone-releasing hormone neuron; Neural cell adhesion molecule; Kallmann's syndrome (Naruse, I. (81) 178)

Growth
Nicotine; Detour learning; cAMP; cAMP-dependent protein kinase; Ornithine decarboxylase; Insulin; Insulin binding (Pennington, S.N. (83) 181)

Growth-associated protein
Olfactory system; Cell migration; B-50/GAP-43; Development; Immunocytochemistry (Pellier, V. (80) 63)

Calcitonin gene-related peptide; Enkephalin; Galanin; Immunohistochemistry; In situ hybridization; Neurofilament; Neuropeptide Y; Neurotensin; Plasticity (Holgert, H. (83) 35)

Growth cone
Growth cone collapse; Microtubule; Extracellular matrix (Miller, J.D. (79) 203)

Neurite initiation; Outgrowth; BAPTA; Set point (Zimprich, F. (80) 7)

Neurite outgrowth; Identified neuron; Axonal regeneration; Helisoma; Cytoskeleton (Williams, D.K. (81) 89)

Growth cone collapse
Growth cone; Microtubule; Extracellular matrix (Miller, J.D. (79) 203)

Growth cone membrane
Ganglioside; *O*-Acetylated ganglioside; Brain development; Rat forebrain; Axonal growth (Igarashi, M. (78) 17)

Growth factor
Retina; Glial cell; Müller cell; Proliferation; Tissue culture (Scherer, J. (80) 209)

Cat; Geniculocortical projection; Mouse; Organotypic culture; Target recognition (Lotto, R.B. (81) 17)

Growth retardation
Insulin-like growth factor; Insulin-like growth factor binding protein-1; Transgenic mouse (D'Ercole, A.J. (82) 213)

Guanylyl cyclase
Nitric oxide synthase; In situ hybridization; Nitric oxide; cGMP (Giuili, G. (81) 269)

Guidance
Neural cell adhesion molecule; Target innervation; Corticospinal tract; Rat; Immunocytochemistry (Joosten, E.A.J. (78) 226)

Guinea pig
Cochlear nucleus; Spherical cell; Deafferentation (Dodson, H.C. (80) 261)

GYKI 52466
Excitatory amino acid receptor pharmacology; Non-NMDA antagonist; Chicken cortical neuron; Cell culture; Whole-cell patch-clamp technique (Osipenko, O. (77) 257)

H

Haloperidol
Ontogeny; Preproenkephalin mRNA expression; cAMP production; Met-enkephalin; Opioid receptor; Dopamine receptor (De Vries, T.J. (78) 175)

Heat shock protein
c-*fos*; c-*jun*; Hypoxia; Ischemia; Neonatal; Developmental brain injury; Immediate early gene; In situ hybridization (Munell, F. (77) 111)

Helisoma
Growth cone; Neurite outgrowth; Identified neuron; Axonal regeneration; Cytoskeleton (Williams, D.K. (81) 89)

Hemicholinium-3
Acetylcholine; Brain development; AF64A; Cholinotoxin; Spatial learning/memory (Brake, W.G. (83) 289)

Heparan sulfate proteoglycan
Retina; Regeneration; Extracellular matrix; Frog; Laminin (Nagy, T. (81) 131)

Heparan sulphate
Proteoglycan; Differentiation; Neurite promoting (Dow, K.E. (80) 175)

Heparin
Heparin-binding growth-associated molecule; Axonal outgrowth; Axon pathway (Rauvala, H. (79) 157)

Heparin-binding growth-associated molecule
Heparin; Axonal outgrowth; Axon pathway (Rauvala, H. (79) 157)

Heparin-binding growth factor
Pleiotrophin; Midkine; Immunocytochemistry; Cerebral development; Rat (Matsumoto, K. (79) 229)

Heterotypic sprouting
Menkes' disease; Serotonin; Norepinephrine; Dopamine; Mouse; Copper (Martin, P. (77) 215)

Higher vocal center
Sexual differentiation; Zebra finch; Birdsong; Estrogen; Neurogenesis (Burek, M.J. (78) 57)

Hilus
Mossy fiber; Dentate gyrus; Synaptogenesis; Basket cell; Hippocampus (Ribak, C.E. (79) 47)

Hippocalcin
Ca^{2+}-binding protein; Development; Northern blot; In situ hybridization; Immunoblot; Immunohistochemistry (Saitoh, S. (80) 199)

Hippocampal cholinergic neurostimulating peptide
Cholinergic development; Septal nucleus; Nerve growth factor (Ojika, K. (79) 1)

Hippocampal formation
Serotonin; Neonate; Parachloroamphetamine; HPLC; Synaptosomal uptake (Haring, J.H. (83) 142)

Hippocampal slice
Infant seizure; Paired-pulse facilitation; Excitatory postsynaptic potential (Zhao, D. (80) 190)

Hippocampus
$GABA_A$ receptor; Granule cell; Inhibition; Paired-pulse depression (DiScenna, P.G. (77) 295)

Pediatric epilepsy; Mossy fiber sprouting; Neuron loss; Granule cell development (Mathern, G.W. (78) 70)

Long-term depression; Phospholipase A_2; Slice; Plasticity; Learning; Development (Fitzpatrick, J.S. (78) 81)

Calcium-binding protein; Parvalbumin; S-100β; Immunocytochemistry; Neocortex (Buwalda, B. (78) 210)

Gonadal hormone; Castration; Neonatal lesion; Ibotenic acid; Amphetamine; Stereotypy; Apomorphine; Dopamine (Lipska, B.K. (78) 253)

Calbindin; Immunocytochemistry; Neuron; Development; Nimodipine; Parietal cortex; Calcium (Luiten, P.G.M. (79) 10)

Mossy fiber; Dentate gyrus; Synaptogenesis; Hilus; Basket cell (Ribak, C.E. (79) 47)

Perforant path kindling; Long-term potentiation; Paired-pulse depression; Dentate gyrus; Nervous system (Trommer, B.L. (79) 115)

Mouse; Adrenal; Medulla; Synapse; Morphometry; PNMT; Choline acetyltransferase; Acetylcholinesterase; Neuron-specific enolase; Immunocytochemistry (Jousselin-Hosaja, M. (79) 321)

Oxytocin; Receptor; Development; Ontogeny; Stress; Maternal separation (Noonan, L.R. (80) 115)

Serotonin; Postnatal handling; Glucocorticoid receptor; serotonin 5-HT_2 receptor; Frontal cortex (Smythe, J.W. (80) 183)

Visual cortex; Lead neurotoxicity; Long-term potentiation; Long-term depression; Paired-pulse stimulation (Altmann, L. (81) 50)

Epileptic afterdischarge; Wet dog shake; Ketamine; Rat; Ontogeny (Mikolášová, R. (81) 105)

Acute cell dissociation; Amphotericin B; Nystatin; Potassium current; Tetraethylammonium (Baraban, S.C. (81) 309)

Adenosine A_1 receptor; Caffeine; Autoradiography; Thalamus; Cerebellum; Ontogeny; Purinergic receptor (Etzel, B.A. (82) 223)

NMDA; D-AP5; Whole-cell voltage-clamp recording; Development; Schild analysis; Brain slice; Receptor diversity (Brady, R.J. (83) 190)

Histochemistry
Neural crest; Sensory neuron; Capsaicin; Development (Matsumoto, S.G. (83) 17)

Postnatal development; Spinal motoneuron; Cell body size; Oxidative enzyme activity; Tibialis anterior muscle; Fluorescent neuronal tracer; Rat (Ishihara, A. (83) 28)

Histone H1°
Transgene; Transcriptional activation; Brain; Neuron; Terminal differentiation (Ponte, I. (80) 35)

Homocysteic acid
Puberty; Hypothalamus; Amino acid neurotransmitter; Aspartate; Glutamate; Taurine; Glycine; GABA (Goroll, D. (77) 183)

Horizontal cell
Rabbit retina; In vitro differentiation; Morphological differentiation; GABA; Neurofilament (Löhrke, S. (77) 97)

Hormone
Nicotine; In utero; Prenatal; Development; Neurotoxicity; ACTH; Prolactin (Poland, R.E. (83) 278)

Horseradish peroxidase
Corticospinal tract; Target finding; Collateral; Pathway formation; DiI; Spinal cord (Joosten, E.A.J. (79) 122)

HPLC
Serotonin; Neonate; Parachloroamphetamine; Hippocampal formation; Synaptosomal uptake (Haring, J.H. (83) 142)

Human fetal brain
Subcommissural organ; Hydrocephalus (Castañeyra-Perdomo, A. (79) 316)

Human fetus
Luteinizing hormone releasing hormone; Vomeronasal organ; Immunocytochemistry (Boehm, N. (82) 175)

Human hypothalamus
Tyrosine hydroxylase; Paraventricular nucleus; Supraoptic nucleus; Oxytocin; Vasopressin; Perinatal hypoxia; Fetal stress (Panayotacopoulou, M.T. (83) 59)

Human retina
Development; Immunoreactivity; Tyrosine hydroxylase; Substance P; Neuropeptide Y; Enkephalin; Amacrine cell (Jotwani, G. (77) 285)

Retinal transplantation; Cell marker; Neuron-specific enolase; Synaptophysin; S-Antigen; Rhodopsin; α-Transducin; Vimentin; Cellular retinaldehyde-binding protein; Glial fibrillary acidic protein (Seiler, M.J. (80) 81)

Human suprachiasmatic nucleus
Vasoactive intestinal polypeptide; Vasopressin; Development; Sexual dimorphy (Swaab, D.F. (79) 249)

Hybridization histochemistry
Somatostatin; Ontogeny (Burgunder, J.-M. (78) 109)

Hydrocephalus
Subcommissural organ; Human fetal brain (Castañeyra-Perdomo, A. (79) 316)

8-hydroxy-DPAT
Neuroplasticity; Serotonin 5-HT_{1A} receptor; Dorsal raphe nucleus; Neonatal 5,7-dihydroxytryptamine (Pranzatelli, M.R. (80) 1)

Hyperammonemia
N-Methyl-D-aspartate; Excitotoxicity; Cerebral hypoxia-ischemia; Meningitis; Neonate (Trescher, W.H. (83) 224)

Hyperstriatum ventrale
Chick; Intermediate part of the hyperstriatum ventrale; Medial part of the hyperstriatum ventrale; Synapse; Visual experience; Plasticity (Bradley, P.M. (80) 295)

Hypoglossal nucleus
Insulin-like growth factor; Muscle-derived neurotrophic factor; Facial nucleus; Cranial motoneuron; Sensory brainstem structure; Lumbar muscle; Tongue; Trophic effect (Eustache, I. (81) 284)

Hypothalamic-pituitary-adrenal
Endotoxin; Gonadal steroid; Ontogeny (Shanks, N. (79) 260)

Hypothalamus
Puberty; Amino acid neurotransmitter; Aspartate; Glutamate; Homocysteic acid; Taurine; Glycine; GABA (Goroll, D. (77) 183)

Androgen receptor; Ferret; Immunocytochemistry; Puberty; Reproductive behavior; Testosterone (Kashon, M.L. (78) 237)

Calcium; Calcium current; Fura-2; $[Ca^{2+}]_i$; Rat; Somatostatin (Desarménien, M.G. (79) 85)

Ontogeny; Carboxypeptidase H (EC 3.4.17.10); Neutral endopeptidase 24.11 (EC 3.4.24.11); Metallo endopeptidase 24.15 (EC 3.4.24.15); Cholecystokinin; Cortex; Cerebellum (Oakes, M.G. (80) 127)

Brain; Neuropeptide; Development; Neurotensin (Scarcériaux, V. (81) 128)

Aromatase; Testosterone; Estradiol; Preoptic area; Amygdala; Cortex; Ontogeny; Aggression (Compaan, J.C. (82) 185)

Hypoxia
c-*fos*; c-*jun*; Heat shock protein; Ischemia; Neonatal; Developmental brain injury; Immediate early gene; In situ hybridization (Munell, F. (77) 111)

Neonatal; Brain damage; Ischemia; Excitatory amino acid; Glutamate release inhibition; BW1003C87 (Gilland, E. (83) 79)

Brain injury; Dopamine; Dynorphin A; Ischemia; Neuropeptide Y; Substance P (Johnson, M. (83) 109)

I

I_A
I_K; Kinetics; Maturation; CA1 (Costa, P.F. (83) 216)

I_K
I_A; Kinetics; Maturation; CA1 (Costa, P.F. (83) 216)

Ibotenic acid
Gonadal hormone; Castration; Neonatal lesion; Hippocampus; Amphetamine; Stereotypy; Apomorphine; Dopamine (Lipska, B.K. (78) 253)

Idazoxan
Noradrenaline; Prazosin; Locomotion; L-DOPA; Air-stepping (Taylor, L.L. (79) 242)

Functional teratology; Clonidine; In vivo microdialysis; Noradrenaline overflow; Monoamine metabolism; α_2-Autoreceptor; Yohimbine (Van Veldhuizen, M.J.A. (79) 275)

Identified neuron
Growth cone; Neurite outgrowth; Axonal regeneration; Helisoma; Cytoskeleton (Williams, D.K. (81) 89)

Ig superfamily
Neural cell adhesion molecules; Development; Axon pathfinding; Chick (Sakurai, T. (83) 99)

Image analysis
Ontogeny; Mammalian brain; Autoradiography; Muscarinic m_2 mRNA; Laminar pattern, cortical layer; Oligonucleotide probe (Roßner, S. (77) 55)

Immediate early gene
c-*fos*; c-*jun*; Heat shock protein; Hypoxia; Ischemia; Neonatal; Developmental brain injury; In situ hybridization (Munell, F. (77) 111)

Immortalization
Neuroblast; Bromodeoxyuridine; Embryonic transplant (Cattaneo, E. (83) 197)

Immunoblot
Hippocalcin; Ca^{2+}-binding protein; Development; Northern blot; In situ hybridization; Immunohistochemistry (Saitoh, S. (80) 199)

Immunoblotting
Thyroid hormone; G-protein; Methimazole; Neonate (Wong, C.C. (79) 136)

Immunocytochemistry
Olfactory system; Marsupial; Serotonin (Philpot, B.D. (77) 265)

Calcium-binding protein; Parvalbumin; S-100β; Hippocampus; Neocortex (Buwalda, B. (78) 210)

Guidance; Neural cell adhesion molecule; Target innervation; Corticospinal tract; Rat (Joosten, E.A.J. (78) 226)

Androgen receptor; Ferret; Hypothalamus; Puberty; Reproductive behavior; Testosterone (Kashon, M.L. (78) 237)

PGP 9.5; Receptor cell; Receptor-free epithelium; Vomeronasal vein (Johnson, E.W. (78) 259)

Calbindin; Neuron; Development; Nimodipine; Hippocampus; Parietal cortex; Calcium (Luiten, P.G.M. (79) 10)

Serotonin 5-HT_{1A} receptor; Serotoninergic neuron; Rat embryo; Primary culture; In situ hybridization (Hillion, J. (79) 195)

Heparin-binding growth factor; Pleiotrophin; Midkine; Cerebral development; Rat (Matsumoto, K. (79) 229)

Mouse; Adrenal; Medulla; Hippocampus; Synapse; Morphometry; PNMT; Choline acetyltransferase; Acetylcholinesterase; Neuron-specific enolase (Jousselin-Hosaja, M. (79) 321)

Olfactory system; Cell migration; Growth-associated protein; B-50/GAP-43; Development (Pellier, V. (80) 63)

Experimental retinal transplantation; Photoreceptor development; Color-specific cone (Szél, Á. (81) 1)

Neuron-specific enolase; Development; Retina; Rat (Fujieda, H. (82) 69)

Luteinizing hormone releasing hormone; Vomeronasal organ; Human fetus (Boehm, N. (82) 175)

Primary culture; Septum; Cholinergic neuron; Choline acetyltransferase; Serotonin 5-HT_{1A} receptor; Ipsapirone (Riad, M. (82) 245)

Neuron-specific tubulin; Olfactory marker protein; Olfactory sensory neuron; Olfactory epithelium; TuJ1 (Lee, V.M. (83) 209)

Immunohistochemistry
Thymosin β; Actin binding; Sensory neuron; Neural development; In situ hybridization; Amphibian (Yamamoto, M. (79) 177)

Hippocalcin; Ca^{2+}-binding protein; Development; Northern blot; In situ hybridization; Immunoblot (Saitoh, S. (80) 199)

Visual system; Plasticity; Synaptogenesis; Development; Optic nerve (Kapfhammer, J.P. (80) 251)

Neurotrophin-4/5; Brain-derived neurotrophic factor; GABA; Calbindin; Neuronal culture; Cortex (Widmer, H.R. (80) 279)

Estrogen receptor; Facial nucleus; In situ hybridization histochemistry; Newborn rat; Transient expression; Down-regulation (Orikasa, C. (82) 9)

Astrocyte; Intermediate filament; Development; Area 17; Cortical plasticity; *Callithrix jacchus* (Missler, M. (82) 103)

Somatostatin; Olfactory–forebrain region; Development; LHRH neuron; Cell migration; Chick embryo (Murakami, S. (82) 277)

Calcium-binding protein; Central nervous system (Vogt Weisenhorn, D.M. (82) 293)

Neurotransmitter; Neural crest; Survival; Differentiation (Matsumoto, S.G. (83) 1)

Calcitonin gene-related peptide; Enkephalin; Galanin; Growth-associated protein; In situ hybridization; Neurofilament; Neuropeptide Y; Neurotensin; Plasticity (Holgert, H. (83) 35)

GABA; Embryonic development; Retina; Turtle; Neurotransmitter (Versaux-Botteri, C. (83) 125)

Immunoreactivity
Human retina; Development; Tyrosine hydroxylase; Substance P; Neuropeptide Y; Enkephalin; Amacrine cell (Jotwani, G. (77) 285)

Inbred strain
Corpus callosum; Anterior commissure; Prenatal development; Recombinant inbred strain; Morphometry (Wahlsten, D. (77) 203)

Infant
Baboon; Brainstem auditory evoked response; Development (Edwards, D.A. (82) 181)

Infant seizure
Hippocampal slice; Paired-pulse facilitation; Excitatory postsynaptic potential (Zhao, D. (80) 190)

Inhibition
$GABA_A$ receptor; Granule cell; Hippocampus; Paired-pulse depression (DiScenna, P.G. (77) 295)

Synaptosome; Cocaine; Fenfluramine; 3,4-Methylenedioxymethamphetamine; Transporter (Kramer, K. (78) 142)

Castanospermine; α-Glucosidase inhibition; Sympathetic nerve; Neurite growth; Regeneration (Abotomey, C. (79) 101)

Inhibitory synapse
Cerebellum; Development; Picrotoxin; Bicuculline; Sprouting; Circuit reorganization (Seil, F.J. (77) 123)

Inositol phosphate
Arachidonic acid; Platelet-activating factor (Petroni, A. (78) 169)

In situ hybridization
Glutamate decarboxylase; GABA; Alternative splicing; Development (Behar, T. (77) 77)

c-*fos*; c-*jun*; Heat shock protein; Hypoxia; Ischemia; Neonatal; Developmental brain injury; Immediate early gene (Munell, F. (77) 111)

Thymosin β; Actin binding; Sensory neuron; Neural development; Immunohistochemistry; Amphibian (Yamamoto, M. (79) 177)

Serotonin 5-HT_{1A} receptor; Serotoninergic neuron; Rat embryo; Primary culture; Immunocytochemistry (Hillion, J. (79) 195)

Complement system; C1q; C4; Microglia; Apoptosis (Johnson, S.A. (80) 163)

Hippocalcin; Ca^{2+}-binding protein; Development; Northern blot; Immunoblot; Immunohistochemistry (Saitoh, S. (80) 199)

α-Brain spectrin; Neuronal maturation; Rat (Gelot, A. (81) 240)

Nitric oxide synthase; Guanylyl cyclase; Nitric oxide; cGMP (Giuili, G. (81) 269)

Calcitonin gene-related peptide; Enkephalin; Galanin; Growth-associated protein; Immunohistochemistry; Neurofilament; Neuropeptide Y; Neurotensin; Plasticity (Holgert, H. (83) 35)

P0 protein mRNA; Spinal root; Sciatic nerve; Development (Baron, P. (83) 285)

In situ hybridization histochemistry
Brain development; Sexual differentiation; Estrogen receptor; Preoptic area; mRNA (DonCarlos, L.L. (79) 283)

Estrogen receptor; Facial nucleus; Immunohistochemistry; Newborn rat; Transient expression; Down-regulation (Orikasa, C. (82) 9)

Insulin
Nicotine; Detour learning; Growth; cAMP; cAMP-dependent protein kinase; Ornithine decarboxylase; Insulin binding (Pennington, S.N. (83) 181)

Insulin binding
Nicotine; Detour learning; Growth; cAMP; cAMP-dependent protein kinase; Ornithine decarboxylase; Insulin (Pennington, S.N. (83) 181)

Insulin-like growth factor
Muscle-derived neurotrophic factor; Facial nucleus; Hypoglossal nucleus; Cranial motoneuron; Sensory brainstem structure; Lumbar muscle; Tongue; Trophic effect (Eustache, I. (81) 284)

Insulin-like growth factor binding protein-1; Transgenic mouse; Growth retardation (D'Ercole, A.J. (82) 213)

Insulin-like growth factor binding protein-1
Insulin-like growth factor; Transgenic mouse; Growth retardation (D'Ercole, A.J. (82) 213)

Intermediate filament
Astrocyte; Development; Area 17; Cortical plasticity; *Callithrix jacchus*; Immunohistochemistry (Missler, M. (82) 103)

Intermediate part of the hyperstriatum ventrale
Chick; Hyperstriatum ventrale; Medial part of the hyperstriatum ventrale; Synapse; Visual experience; Plasticity (Bradley, P.M. (80) 295)

Internal granule cell layer
Pituitary adenylate cyclase-activating polypeptide; Pituitary adenylate cyclase-activating polypeptide receptor; Cerebellum; Ontogeny; External granule cell layer; Medulla; Quantitative autoradiography (Basille, M. (82) 81)

Internodal length
Maturation; Physiology; Potassium channel; Myelin sheath; 4-Aminopyridine; Remodelling; Node of Ranvier (Bowe, C.M. (79) 186)

Interocular interaction
Visual system; Plasticity; Critical period (Serfaty, C.A. (82) 35)

Intracellular free calcium
NMDA receptor; Spinal cord dorsal horn; Substantia gelatinosa; Postnatal development; Capsaicin; Fine primary afferent fiber (Hori, Y. (80) 141)

In utero
Nicotine; Prenatal; Development; Neurotoxicity; Hormone; ACTH; Prolactin (Poland, R.E. (83) 278)

In utero drug exposure
Ontogenesis; Opioid receptor; Buprenorphine; Rat central nervous system; Opioid peptide; Down-regulation (Belcheva, M.M. (80) 158)

In vitro
Fetus; Newborn; Rat; Respiratory centre; Development; Rhythm (Di Pasquale, E. (78) 243)

Respiratory centre; Serotonin; Fetus; Rat; Development (Di Pasquale, E. (80) 222)

Xenopus laevis; Photoreceptor; Outer segment; Morphogenesis (Stiemke, M.M. (80) 285)

In vitro differentiation
Rabbit retina; Horizontal cell; Morphological differentiation; GABA; Neurofilament (Löhrke, S. (77) 97)

In vitro model of differention
Neural development; Monoclonal antibody; Neuronal precursor (Müller-Husmann, G. (83) 262)

In vivo microdialysis
Functional teratology; Clonidine; Noradrenaline overflow; Monoamine metabolism; α_2-Autoreceptor; Idazoxan; Yohimbine (Van Veldhuizen, M.J.A. (79) 275)

Ipsapirone
Primary culture; Septum; Cholinergic neuron; Choline acetyltransferase; Serotonin 5-HT_{1A} receptor; Immunocytochemistry (Riad, M. (82) 245)

Ischemia
c-*fos*; c-*jun*; Heat shock protein; Hypoxia; Neonatal; Developmental brain injury; Immediate early gene; In situ hybridization (Munell, F. (77) 111)

Astrocyte; ATP; Energy metabolism; Neonatal brain damage; Phosphocreatine (Yager, J.Y. (82) 62)

Neonatal; Brain damage; Hypoxia; Excitatory amino acid; Glutamate release inhibition; BW1003C87 (Gilland, E. (83) 79)

Brain injury; Dopamine; Dynorphin A; Hypoxia; Neuropeptide Y; Substance P (Johnson, M. (83) 109)

K

Kallmann's syndrome
Arhinencephaly; Olfactory blub; Luteinizing hormone-releasing hormone neuron; Neural cell adhesion molecule; Greig cephalopolysyndactyly (Naruse, I. (81) 178)

Ketamine
Hippocampus; Epileptic afterdischarge; Wet dog shake; Rat; Ontogeny (Mikolášová, R. (81) 105)

Kinematics
Locomotion; Gait; Coordination; Neonatal rat; Ontogeny; L-DOPA; Dynamical system (Stehouwer, D.J. (82) 143)

Kinetics
I_A; I_K; Maturation; CA1 (Costa, P.F. (83) 216)

L

Laminar pattern, cortical layer
Ontogeny; Mammalian brain; Autoradiography; Muscarinic m_2 mRNA; Oligonucleotide probe; Image analysis (Roßner, S. (77) 55)

Laminin
Retina; Regeneration; Extracellular matrix; Frog; Heparan sulfate proteoglycan (Nagy, T. (81) 131)

Lateral collateral pathway
NADPH-diaphorase; Nitric oxide synthase; Sacral parasympathetic nucleus; Dorsal horn; Lumbosacral spinal cord (Vizzard, M.A. (81) 201)

Lateral septum
Castration; Testosterone; Vasopressin (Wang, Z. (79) 147)

Lead neurotoxicity
Visual cortex; Hippocampus; Long-term potentiation; Long-term depression; Paired-pulse stimulation (Altmann, L. (81) 50)

Learning
Long-term depression; Phospholipase A_2; Hippocampus; Slice; Plasticity; Development (Fitzpatrick, J.S. (78) 81)

Lewis rat
Animal model; Cerebellar dysplasia; Neurogenesis; Mutant; Pathology; Vermis defect; Rhombencephalosynapsis (Kuwamura, M. (83) 294)

LHRH neuron
Somatostatin; Olfactory–forebrain region; Development; Immunohistochemistry; Cell migration; Chick embryo (Murakami, S. (82) 277)

Light-driven
Biosynthesis; Development; Retina; Somatostatin; Somatostatin-14; Somatostatin-28 (Dowton, M. (78) 65)

Limbic system
Peking duck; Subfornical organ; Anteroventral third ventricular region; AV3V region; Choroid plexus; Paraventricular nucleus; ANGII; Angiotensin II; Angiotensin receptor (Müller, A.R. (78) 10)

Locomotion
Noradrenaline; Prazosin; Idazoxan; L-DOPA; Air-stepping (Taylor, L.L. (79) 242)

L-DOPA; Ontogeny; Gait; Neonatal rat (McCrea, A.E. (82) 136)

Gait; Kinematics; Coordination; Neonatal rat; Ontogeny; L-DOPA; Dynamical system (Stehouwer, D.J. (82) 143)

Long-term depression
Phospholipase A_2; Hippocampus; Slice; Plasticity; Learning; Development (Fitzpatrick, J.S. (78) 81)

Visual cortex; Hippocampus; Lead neurotoxicity; Long-term potentiation; Paired-pulse stimulation (Altmann, L. (81) 50)

Long-term potentiation
Protein kinase M; Zeta; Synaptic plasticity; Phosphorylation (Jiang, X. (78) 291)

Hippocampus; Perforant path kindling; Paired-pulse depression; Dentate gyrus; Nervous system (Trommer, B.L. (79) 115)

Visual cortex; Hippocampus; Lead neurotoxicity; Long-term depression; Paired-pulse stimulation (Altmann, L. (81) 50)

Low-affinity NGF receptor
$p75^{LNGFR}$; Trophic factor; Recovery of function; Cholinergic cell; Regeneration (Van Eden, C.G. (82) 167)

Low-voltage electrocortical
Fetal behavioural state; Cerebral blood flow (Richardson, B.S. (81) 10)

Loyez stain
Quantitative electron microscopy; Thyroid hormone; DiI tracing (Guadaño Ferraz, A. (81) 293)

Lumbar muscle
Insulin-like growth factor; Muscle-derived neurotrophic factor; Facial nucleus; Hypoglossal nucleus; Cranial motoneuron; Sensory brainstem structure; Tongue; Trophic effect (Eustache, I. (81) 284)

Lumbosacral spinal cord
NADPH-diaphorase; Nitric oxide synthase; Lateral collateral pathway; Sacral parasympathetic nucleus; Dorsal horn (Vizzard, M.A. (81) 201)

Luteinizing hormone-releasing hormone
Chicken GnRH II; FMRFamide; Olfactory placode; Nervus terminalis; Brain-pituitary-gonad axis; Posterior tubercle (Northcutt, R.G. (78) 279)

Luteinizing hormone releasing hormone
Vomeronasal organ; Human fetus; Immunocytochemistry (Boehm, N. (82) 175)

Luteinizing hormone-releasing hormone neuron
Arhinencephaly; Olfactory blub; Neural cell adhesion molecule; Kallmann's syndrome; Greig cephalopolysyndactyly (Naruse, I. (81) 178)

M

Macaque
Ontogeny; Nervous system; Vision; Area 17; Area 18 (Barone, P. (77) 290)

Magnesium
NMDA; Neocortex; Development; Glutamate; Patch clamp (Burgard, E.C. (80) 275)

Magnocellular
Parvicellular; Arginine-vasopressin immunoreactivity; Autoradiography; Arginine-vasopressin projection; Suprachiasmatic nucleus (Delville, Y. (81) 230)

Mammalian brain
Ontogeny; Autoradiography; Muscarinic m_2 mRNA; Laminar pattern, cortical layer; Oligonucleotide probe; Image analysis (Roßner, S. (77) 55)

MAP1A
Gene expression; Tubulin mRNA; Tau; MAP1B; β-Tubulin (Oblinger, M.M. (77) 45)

MAP1B
Gene expression; Tubulin mRNA; Tau; MAP1A; β-Tubulin (Oblinger, M.M. (77) 45)

Map formation
Cerebellum; Spinocerebellar; NMDA; 2-Aminophosphovalerate; Muscimol (Tolbert, D.L. (80) 268)

Marihuana
Cannabinoid; Mesencephalic catecholaminergic neuron; Nigrostriatal dopaminergic neuron; Tyrosine hydroxylase; Tyrosine hydroxylase gene (Bonnin, A. (81) 147)

Marsupial
Olfactory system; Serotonin; Immunocytochemistry (Philpot, B.D. (77) 265)

Maternal separation
Oxytocin; Receptor; Development; Ontogeny; Hippocampus; Stress (Noonan, L.R. (80) 115)

Maturation
Physiology; Potassium channel; Myelin sheath; 4-Aminopyridine; Remodelling; Internodal length; Node of Ranvier (Bowe, C.M. (79) 186)

Phosphocreatine; Diffusion; Nuclear magnetic resonance; Taurine; *N*-Acetylaspartate (Nakada, T. (80) 121)

I_A; I_K; Kinetics; CA1 (Costa, P.F. (83) 216)

Medial geniculate body
Neocortical development; Cortical module; Biocytin (De Venecia, R.K. (81) 135)

Medial part of the hyperstriatum ventrale
Chick; Hyperstriatum ventrale; Intermediate part of the hyperstriatum ventrale; Synapse; Visual experience; Plasticity (Bradley, P.M. (80) 295)

Medial septum
Cholinergic; GABAergic; Basic fibroblast growth factor; Epidermal growth factor (Yokoyama, M. (78) 201)

Basal forebrain; Synaptic development; Spine; Retrograde tracing; Neuronal differentiation (Linke, R. (83) 67)

Medulla
Mouse; Adrenal; Hippocampus; Synapse; Morphometry; PNMT; Choline acetyltransferase; Acetylcholinesterase; Neuron-specific enolase; Immunocytochemistry (Jousselin-Hosaja, M. (79) 321)

Pituitary adenylate cyclase-activating polypeptide; Pituitary adenylate cyclase-activating polypeptide receptor; Cerebellum; Ontogeny; External granule cell layer; Internal granule cell layer; Quantitative autoradiography (Basille, M. (82) 81)

Membrane protein
Spinal cord; Retina; Sensory neuron development; Neuronal specificity; Axon outgrowth (Halfter, W. (78) 87)

Memory stage
Astrocyte; Energy metabolism; Glycogen; Glycogenolysis; Glycolysis; Noradrenaline; Passive avoidance learning; Reinforcement (O'Dowd, B.S. (78) 137)

Meningitis
N-Methyl-D-aspartate; Excitotoxicity; Cerebral hypoxia-ischemia; Hyperammonemia; Neonate (Trescher, W.H. (83) 224)

Menkes' disease
Serotonin; Norepinephrine; Dopamine; Heterotypic sprouting; Mouse; Copper (Martin, P. (77) 215)

Mental nerve
Nerve growth factor; Dental pulp; Dental innervation; Trigeminal ganglion; Unmyelinated fiber; Myelinated fiber (Naftel, J.P. (80) 54)

Mesencephalic catecholaminergic neuron
Marihuana; Cannabinoid; Nigrostriatal dopaminergic neuron; Tyrosine hydroxylase; Tyrosine hydroxylase gene (Bonnin, A. (81) 147)

Mesoaccumbens
Dopamine; Electrophysiology; Nucleus accumbens; Ventral tegmental area; Ontogeny; Tegmentum mesencephali (Wang, L. (79) 19)

Metallo endopeptidase 24.15 (EC 3.4.24.15)
Ontogeny; Carboxypeptidase H (EC 3.4.17.10); Neutral endopeptidase 24.11 (EC 3.4.24.11); Cholecystokinin; Hypothalamus; Cortex; Cerebellum (Oakes, M.G. (80) 127)

Metamorphosis
Neural cell adhesion molecule; *Pleurodeles waltl*; Thyroid hormone; Retinoic acid; Paedomorphosis (Becker, C.G. (79) 140)

Met-enkephalin
Ontogeny; Preproenkephalin mRNA expression; cAMP production; Haloperidol; Opioid receptor; Dopamine receptor (De Vries, T.J. (78) 175)

Methimazole
Thyroid hormone; G-protein; Neonate; Immunoblotting (Wong, C.C. (79) 136)

***N*-Methyl-D-aspartate**
Excitotoxicity; Cerebral hypoxia-ischemia; Hyperammonemia; Meningitis; Neonate (Trescher, W.H. (83) 224)

3,4-Methylenedioxymethamphetamine
Synaptosome; Inhibition; Cocaine; Fenfluramine; Transporter (Kramer, K. (78) 142)

Microcephaly
Ochratoxin A; Synapse-to-neuron ratio; Somatosensory cortex; Visual cortex; Cortical development (Miki, T. (82) 259)

Microdialysis
Dopamine; Development/ontogeny; Quinpirole; Autoreceptor; Potassium; Sulpiride; Dopamine D_2 receptor (Andersen, S.L. (78) 123)

Microglia
Complement system; C1q; C4; In situ hybridization; Apoptosis (Johnson, S.A. (80) 163)

Microgyria
Radial glia; Astrocyte; Freezing injury; Brain damage; Neocortex (Rosen, G.D. (82) 127)

Microtubule
Growth cone; Growth cone collapse; Extracellular matrix (Miller, J.D. (79) 203)

Midkine
Heparin-binding growth factor; Pleiotrophin; Immunocytochemistry; Cerebral development; Rat (Matsumoto, K. (79) 229)

Miniature synaptic current
Synaptogenesis; Central neuron; Glutamatergic synapse; GABAergic synapse; Synapsin I; Tetrodotoxin (Gottmann, K. (81) 77)

Modulatory influence
Chick embryo; Spinal cord; Cholinergic; Norepinephrine; Serotonin; Dopamine (Thiriet, G. (78) 102)

Monoamine metabolism
Functional teratology; Clonidine; In vivo microdialysis; Noradrenaline overflow; α_2-Autoreceptor; Idazoxan; Yohimbine (Van Veldhuizen, M.J.A. (79) 275)

Monoclonal antibody
Glycoconjugate; Vomeronasal organ; Olfactory bulb; Axonal guidance; CNS development (Schwarting, G.A. (78) 191)

Neural development; In vitro model of differention; Neuronal precursor (Müller-Husmann, G. (83) 262)

Morphogenesis
Xenopus laevis; Photoreceptor; Outer segment; In vitro (Stiemke, M.M. (80) 285)

Morphological differentiation
Rabbit retina; Horizontal cell; In vitro differentiation; GABA; Neurofilament (Löhrke, S. (77) 97)

Morphometry
Corpus callosum; Anterior commissure; Prenatal development; Inbred strain; Recombinant inbred strain (Wahlsten, D. (77) 203)

Blood–brain barrier; Ultrastructure; Development; Vascular pore (Stewart, P.A. (78) 25)

Retina; Ontogenesis; Column; Radial glia; Stem cell (Reichenbach, A. (79) 72)

Mouse; Adrenal; Medulla; Hippocampus; Synapse; PNMT; Choline acetyltransferase; Acetylcholinesterase; Neuron-specific enolase; Immunocytochemistry (Jousselin-Hosaja, M. (79) 321)

Mossy fiber
Dentate gyrus; Synaptogenesis; Hilus; Basket cell; Hippocampus (Ribak, C.E. (79) 47)

Synapse; Development; Electron microscopy; Roller tube (Robain, O. (80) 244)

Mossy fiber sprouting
Pediatric epilepsy; Hippocampus; Neuron loss; Granule cell development (Mathern, G.W. (78) 70)

Motoneuron
Botulinum A toxin; Axon sprouting; Skeletal muscle; Tissue culture (Bonner, P.H. (79) 39)

Tadpole; Spinal cord; Neurogenesis; Survival (Clorfene, J.B. (79) 93)

Excitotoxicity; Axotomy; Target deprivation (Greensmith, L. (81) 162)

Motor cortex
Somatosensory cortex; Neuronal death; Alz-50; Tau; Subplate (Miller, M.W. (81) 260)

Motor unit
Development; Electromyography; Soleus; Rat (Westerga, J. (80) 233)

Mouse
Menkes' disease; Serotonin; Norepinephrine; Dopamine; Heterotypic sprouting; Copper (Martin, P. (77) 215)

Adrenal; Medulla; Hippocampus; Synapse; Morphometry; PNMT; Choline acetyltransferase; Acetylcholinesterase; Neuron-specific enolase; Immunocytochemistry (Jousselin-Hosaja, M. (79) 321)

Cat; Geniculocortical projection; Growth factor; Organotypic culture; Target recognition (Lotto, R.B. (81) 17)

Mouse embryo
Pyruvate dehydrogenase; Expression; Development of brain; Energy metabolism; Brain malformation; Pyruvate dehydrogenase deficiency; Central nervous system (Takakubo, F. (77) 63)

Mouse somatosensory system
2-Deoxyglucose autoradiography; Cytochrome oxidase; Whisker stimulation; Barrel cortex; Somatotopy; Development of brain function (Melzer, P. (77) 227)

Müller cell
Growth factor; Retina; Glial cell; Proliferation; Tissue culture (Scherer, J. (80) 209)

Muscarinic receptor
Cocaine; Norcocaine; Cocaethylene; Phosphoinositide metabolism (Tan, X.X. (79) 132)

Muscarinic m_2 mRNA
Ontogeny; Mammalian brain; Autoradiography; Laminar pattern, cortical layer; Oligonucleotide probe; Image analysis (Roßner, S. (77) 55)

Muscimol
Cerebellum; Spinocerebellar; NMDA; 2-Aminophosphovalerate; Map formation (Tolbert, D.L. (80) 268)

Muscle-derived neurotrophic factor
Insulin-like growth factor; Facial nucleus; Hypoglossal nucleus; Cranial motoneuron; Sensory brainstem structure; Lumbar muscle; Tongue; Trophic effect (Eustache, I. (81) 284)

Mutant
Animal model; Cerebellar dysplasia; Lewis rat; Neurogenesis; Pathology; Vermis defect; Rhombencephalosynapsis (Kuwamura, M. (83) 294)

Myelin
Central nervous system; Peripheral nervous system; Ceramide galactosyltransferase; Phosphatidylcholine; Trembler (Garbay, B. (83) 119)

Myelinated fiber
Nerve growth factor; Dental pulp; Dental innervation; Mental nerve; Trigeminal ganglion; Unmyelinated fiber (Naftel, J.P. (80) 54)

Myelin sheath
Maturation; Physiology; Potassium channel; 4-Aminopyridine; Remodelling; Internodal length; Node of Ranvier (Bowe, C.M. (79) 186)

N

NADPH-diaphorase
Neocortex; Rat (Yan, X.X. (79) 29)

Nitric oxide synthase; Lateral collateral pathway; Sacral parasympathetic nucleus; Dorsal horn; Lumbosacral spinal cord (Vizzard, M.A. (81) 201)

Superior colliculus; Nitric oxide; Plasticity; Dendrite; Development (Vercelli, A.E. (83) 85)

Naltriben
δ Opioid receptor; Weaning; Ontogeny; Expression; δ Subtype (Kitchen, I. (78) 147)

Neocortex
Ectopia; Disruption; Dreher mouse (Sekiguchi, M. (77) 37)

Calcium-binding protein; Parvalbumin; S-100β; Immunocytochemistry; Hippocampus (Buwalda, B. (78) 210)

NADPH-diaphorase; Rat (Yan, X.X. (79) 29)

NMDA; Development; Glutamate; Magnesium; Patch clamp (Burgard, E.C. (80) 275)

Radial glia; Astrocyte; Microgyria; Freezing injury; Brain damage (Rosen, G.D. (82) 127)

Neocortical development
Medial geniculate body; Cortical module; Biocytin (De Venecia, R.K. (81) 135)

Neonatal
c-*fos*; c-*jun*; Heat shock protein; Hypoxia; Ischemia; Developmental brain injury; Immediate early gene; In situ hybridization (Munell, F. (77) 111)

Brain damage; Ischemia; Hypoxia; Excitatory amino acid; Glutamate release inhibition; BW1003C87 (Gilland, E. (83) 79)

Neonatal brain damage
Astrocyte; ATP; Energy metabolism; Ischemia; Phosphocreatine (Yager, J.Y. (82) 62)

Neonatal 5,7-dihydroxytryptamine
Neuroplasticity; Serotonin 5-HT_{1A} receptor; Dorsal raphe nucleus; 8-hydroxy-DPAT (Pranzatelli, M.R. (80) 1)

Neonatal lesion
Gonadal hormone; Castration; Hippocampus; Ibotenic acid; Amphetamine; Stereotypy; Apomorphine; Dopamine (Lipska, B.K. (78) 253)

Neonatal ovariectomy
Cerebellar development; Ovarian sex steroid; Granule cell; Purkinje cell; Foliation; Neurogenesis; Neuronal death (Litteria, M. (81) 113)

Neonatal rat
Locomotion; L-DOPA; Ontogeny; Gait (McCrea, A.E. (82) 136)

Locomotion; Gait; Kinematics; Coordination; Ontogeny; L-DOPA; Dynamical system (Stehouwer, D.J. (82) 143)

Neonate
Periventricular leukomalacia; Dog; Carotid artery occlusion; Cerebral ischemia (Yoshioka, H. (78) 273)

Thyroid hormone; G-protein; Methimazole; Immunoblotting (Wong, C.C. (79) 136)

Serotonin; Parachloroamphetamine; Hippocampal formation; HPLC; Synaptosomal uptake (Haring, J.H. (83) 142)

N-Methyl-D-aspartate; Excitotoxicity; Cerebral hypoxia-ischemia; Hyperammonemia; Meningitis (Trescher, W.H. (83) 224)

Nerve growth factor
Cholinergic development; Septal nucleus; Hippocampal cholinergic neurostimulating peptide (Ojika, K. (79) 1)

Neurotrophin; Choline acetyltransferase activity; Acetylcholinesterase; Neuronal survival; Central cholinergic neuron; Postnatal neuron (Nonner, D. (79) 219)

Dental pulp; Dental innervation; Mental nerve; Trigeminal ganglion; Unmyelinated fiber; Myelinated fiber (Naftel, J.P. (80) 54)

Programmed cell death; Depolarization; Choline acetyltransferase; Acetylcholinesterase (Nakamura, M. (81) 218)

Nervous system
Ontogeny; Macaque; Vision; Area 17; Area 18 (Barone, P. (77) 290)

Hippocampus; Perforant path kindling; Long-term potentiation; Paired-pulse depression; Dentate gyrus (Trommer, B.L. (79) 115)

Nervus terminalis
Luteinizing hormone-releasing hormone; Chicken GnRH II; FMRFamide; Olfactory placode; Brain-pituitary-gonad axis; Posterior tubercle (Northcutt, R.G. (78) 279)

Neural activity
Epilepsy; Corpus callosum; Development (Grigonis, A.M. (77) 251)

Neural cell adhesion molecule
Guidance; Target innervation; Corticospinal tract; Rat; Immunocytochemistry (Joosten, E.A.J. (78) 226)

Metamorphosis; *Pleurodeles waltl*; Thyroid hormone; Retinoic acid; Paedomorphosis (Becker, C.G. (79) 140)

Arhinencephaly; Olfactory blub; Luteinizing hormone-releasing hormone neuron; Kallmann's syndrome; Greig cephalopolysyndactyly (Naruse, I. (81) 178)

Neural cell adhesion molecules
Development; Ig superfamily; Axon pathfinding; Chick (Sakurai, T. (83) 99)

Neural crest
Ubiquitin; Chick; Embryo; Neuronal; Differentiation (Smith-Thomas, L.C. (81) 171)

Neurotransmitter; Survival; Differentiation; Immunohistochemistry (Matsumoto, S.G. (83) 1)

Sensory neuron; Capsaicin; Development; Histochemistry (Matsumoto, S.G. (83) 17)

Neural crest cell
Fibroblast growth factor; Neurofilament; Neuronal differentiation; Peripherin; Tetanus toxin C (Bannerman, P.G. (83) 146)

Neural development
Thymosin β; Actin binding; Sensory neuron; In situ hybridization; Immunohistochemistry; Amphibian (Yamamoto, M. (79) 177)

Tropomodulin; Tropomyosin; Actin filament (Sussman, M.A. (80) 45)

Calcium binding protein; Cerebral cortex; GABAergic neuron (Del Río, J.A. (81) 247)

Monoclonal antibody; In vitro model of differention; Neuronal precursor (Müller-Husmann, G. (83) 262)

Neural ontogeny
Glucocorticoid; Steroid receptor; Gene expression; Adrenal (Bohn, M.C. (77) 157)

Neurite
Differentiation; cyclic AMP; Neuropeptide; Neurotrophin; A126-1B2 cell (Ferriero, D.M. (80) 13)

Neurite growth
Castanospermine; α-Glucosidase inhibition; Sympathetic nerve; Inhibition; Regeneration (Abotomey, C. (79) 101)

Neurite initiation
Outgrowth; BAPTA; Set point; Growth cone (Zimprich, F. (80) 7)

Neurite outgrowth
Growth cone; Identified neuron; Axonal regeneration; Helisoma; Cytoskeleton (Williams, D.K. (81) 89)

Neurite promoting
Proteoglycan; Differentiation; Heparan sulphate (Dow, K.E. (80) 175)

Neuroblast
Immortalization; Bromodeoxyuridine; Embryonic transplant (Cattaneo, E. (83) 197)

Neuroendocrine
Adrenal medulla; GAP-43; Noradrenergic; Adrenergic; Chromaffin cell (Grant, N.J. (82) 265)

Neurofilament
Rabbit retina; Horizontal cell; In vitro differentiation; Morphological differentiation; GABA (Löhrke, S. (77) 97)

Plasticity; Phosphorylation; Visual cortex (Liu, Y. (81) 151)

Calcitonin gene-related peptide; Enkephalin; Galanin; Growth-associated protein; Immunohistochemistry; In situ hybridization; Neuropeptide Y; Neurotensin; Plasticity (Holgert, H. (83) 35)

Fibroblast growth factor; Neural crest cell; Neuronal differentiation; Peripherin; Tetanus toxin C (Bannerman, P.G. (83) 146)

Neurogenesis
Retinoic acid receptor; Neuronal differentiation (Yamagata, T. (77) 163)

Spinothalamic tract; Spinocerebellar tract; Development; Spinal cord; Retrograde tracing (Beal, J.A. (78) 49)

Sexual differentiation; Zebra finch; Birdsong; Higher vocal center; Estrogen (Burek, M.J. (78) 57)

Tadpole; Spinal cord; Motoneuron; Survival (Clorfene, J.B. (79) 93)

Cerebellar development; Neonatal ovariectomy; Ovarian sex steroid; Granule cell; Purkinje cell; Foliation; Neuronal death (Litteria, M. (81) 113)

Animal model; Cerebellar dysplasia; Lewis rat; Mutant; Pathology; Vermis defect; Rhombencephalosynapsis (Kuwamura, M. (83) 294)

Neurokinin B
Cerebral cortex; Substance P; Development; Gene expression; Rat (Zhang, L. (77) 23)

Neurological development
ERCC3; Excision repair cross-complementing; Excision repair gene; Cockayne's syndrome (Hubank, M. (81) 66)

Neuromuscular development
Synapse elimination; Acetylcholinesterase; Non-specific cholinesterase; Endplate development; Neurotrophic influence (Feng, Y. (79) 151)

Neuron
Calbindin; Immunocytochemistry; Development; Nimodipine; Hippocampus; Parietal cortex; Calcium (Luiten, P.G.M. (79) 10)

Histone H1°; Transgene; Transcriptional activation; Brain; Terminal differentiation (Ponte, I. (80) 35)

Neuronal
Ubiquitin; Chick; Embryo; Differentiation; Neural crest (Smith-Thomas, L.C. (81) 171)

Neuronal activity
Barrel; Tetrodotoxin; Trigeminal system; DiI; Serotonin (Chiaia, N.L. (79) 301)

Neuronal culture
Neurotrophin-4/5; Brain-derived neurotrophic factor; GABA; Calbindin; Immunohistochemistry; Cortex (Widmer, H.R. (80) 279)

Neuronal death
Cerebellar development; Neonatal ovariectomy; Ovarian sex steroid; Granule cell; Purkinje cell; Foliation; Neurogenesis (Litteria, M. (81) 113)

Somatosensory cortex; Motor cortex; Alz-50; Tau; Subplate (Miller, M.W. (81) 260)

Neuronal differentiation
Retinoic acid receptor; Neurogenesis (Yamagata, T. (77) 163)

Basal forebrain; Medial septum; Synaptic development; Spine; Retrograde tracing (Linke, R. (83) 67)

Fibroblast growth factor; Neural crest cell; Neurofilament; Peripherin; Tetanus toxin C (Bannerman, P.G. (83) 146)

Neuronal immortalization
Controllable oncogene; APUD cell; Serotonin; Trophic effect; Retinoic acid (Stringer, B.M.J. (79) 267)

Neuronal maturation
α-Brain spectrin; In situ hybridization; Rat (Gelot, A. (81) 240)

Neuronal migration
Striatum; Development; Bromodeoxyuridine; Patch matrix; Birthdating (Song, D.D. (83) 233)

Neuronal precursor
Neural development; Monoclonal antibody; In vitro model of differention (Müller-Husmann, G. (83) 262)

Neuronal proliferation and migration
Olfactory receptor neuron; Basal cell; Olfactory neural development; Thyroid hormone; Thyroid and neural development; Developmental plasticity; Recovery from neural retardation; Compensatory neural growth (Paternostro, M.A. (83) 151)

Neuronal specificity
Spinal cord; Retina; Sensory neuron development; Axon outgrowth; Membrane protein (Halfter, W. (78) 87)

Neuronal survival
Nerve growth factor; Neurotrophin; Choline acetyltransferase activity; Acetylcholinesterase; Central cholinergic neuron; Postnatal neuron (Nonner, D. (79) 219)

Neuron loss
Pediatric epilepsy; Hippocampus; Mossy fiber sprouting; Granule cell development (Mathern, G.W. (78) 70)

Neuron-specific enolase
Mouse; Adrenal; Medulla; Hippocampus; Synapse; Morphometry; PNMT; Choline acetyltransferase; Acetylcholinesterase; Immunocytochemistry (Jousselin-Hosaja, M. (79) 321)

Retinal transplantation; Human retina; Cell marker; Synaptophysin; S-Antigen; Rhodopsin; α-Transducin; Vimentin; Cellular retinaldehyde-binding protein; Glial fibrillary acidic protein (Seiler, M.J. (80) 81)

Development; Retina; Immunocytochemistry; Rat (Fujieda, H. (82) 69)

Neuron-specific tubulin
Olfactory marker protein; Olfactory sensory neuron; Olfactory epithelium; Immunocytochemistry; TuJ1 (Lee, V.M. (83) 209)

Neuropeptide
Differentiation; cyclic AMP; Neurotrophin; A126-1B2 cell; Neurite (Ferriero, D.M. (80) 13)

Brain; Hypothalamus; Development; Neurotensin (Scarcériaux, V. (81) 128)

Enkephalin; Substance P; Development; Striatum; Extended amygdala (Song, D.D. (83) 247)

Neuropeptide FF
Ontogeny; Autoradiography; Receptor; Analgesia; Opioid (Desprat, C. (82) 118)

Neuropeptide Y
Human retina; Development; Immunoreactivity; Tyrosine hydroxylase; Substance P; Enkephalin; Amacrine cell (Jotwani, G. (77) 285)

Calcitonin gene-related peptide; Enkephalin; Galanin; Growth-associated protein; Immunohistochemistry; In situ hybridization; Neurofilament; Neurotensin; Plasticity (Holgert, H. (83) 35)

Brain injury; Dopamine; Dynorphin A; Hypoxia; Ischemia; Substance P (Johnson, M. (83) 109)

Neuroplasticity
Serotonin 5-HT_{1A} receptor; Dorsal raphe nucleus; Neonatal 5,7-dihydroxytryptamine; 8-hydroxy-DPAT (Pranzatelli, M.R. (80) 1)

Neurotensin
Brain; Neuropeptide; Hypothalamus; Development (Scarcériaux, V. (81) 128)

Calcitonin gene-related peptide; Enkephalin; Galanin; Growth-associated protein; Immunohistochemistry; In situ hybridization; Neurofilament; Neuropeptide Y; Plasticity (Holgert, H. (83) 35)

Neurotoxicity
Nicotine; In utero; Prenatal; Development; Hormone; ACTH; Prolactin (Poland, R.E. (83) 278)

Neurotoxin
Serotonin; Noradrenaline; Brain plasticity; Somatosensory cortex; Vibrissa (Osterheld-Haas, M.C. (77) 189)

Neurotransmitter
Neural crest; Survival; Differentiation; Immunohistochemistry (Matsumoto, S.G. (83) 1)

GABA; Embryonic development; Retina; Turtle; Immunohistochemistry (Versaux-Botteri, C. (83) 125)

Neurotrophic factor
Neurotrophin-3; Calcium-binding protein; Dorsal root ganglion; Parvalbumin; Calretinin; Calbindin-D28k (Copray, J.C.V.M. (81) 57)

Neurotrophic influence
Neuromuscular development; Synapse elimination; Acetylcholinesterase; Non-specific cholinesterase; Endplate development (Feng, Y. (79) 151)

Neurotrophin
Nerve growth factor; Choline acetyltransferase activity; Acetylcholinesterase; Neuronal survival; Central cholinergic neuron; Postnatal neuron (Nonner, D. (79) 219)

Differentiation; cyclic AMP; Neuropeptide; A126-1B2 cell; Neurite (Ferriero, D.M. (80) 13)

Receptor tyrosine kinase; Retinal ganglion cell; Amacrine cell; Optic nerve; Retina; Zebrafish (Sandell, J.H. (81) 192)

Neurotrophin-3
Calcium-binding protein; Dorsal root ganglion; Parvalbumin; Calretinin; Calbindin-D28k; Neurotrophic factor (Copray, J.C.V.M. (81) 57)

Neurotrophin-4/5
Brain-derived neurotrophic factor; GABA; Calbindin; Neuronal culture; Immunohistochemistry; Cortex (Widmer, H.R. (80) 279)

Neurotrophin receptor
Sympathetic ganglia (Dixon, J.E. (77) 177)

Neutral endopeptidase 24.11 (EC 3.4.24.11)
Ontogeny; Carboxypeptidase H (EC 3.4.17.10); Metallo endopeptidase 24.15 (EC 3.4.24.15); Cholecystokinin; Hypothalamus; Cortex; Cerebellum (Oakes, M.G. (80) 127)

Newborn
Fetus; Rat; Respiratory centre; Development; Rhythm; In vitro (Di Pasquale, E. (78) 243)

Newborn rat
Estrogen receptor; Facial nucleus; In situ hybridization histochemistry; Immunohistochemistry; Transient expression; Down-regulation (Orikasa, C. (82) 9)

Nicotine
Dopamine; Norepinephrine (Seidler, F.J. (82) 1)

Detour learning; Growth; cAMP; cAMP-dependent protein kinase; Ornithine decarboxylase; Insulin; Insulin binding (Pennington, S.N. (83) 181)

In utero; Prenatal; Development; Neurotoxicity; Hormone; ACTH; Prolactin (Poland, R.E. (83) 278)

Nigrostriatal dopaminergic neuron
Marihuana; Cannabinoid; Mesencephalic catecholaminergic neuron; Tyrosine hydroxylase; Tyrosine hydroxylase gene (Bonnin, A. (81) 147)

Nigrostriatal pathway
Opioid peptide; Dopamine; Postnatal development (Pickel, V.M. (83) 163)

Nimodipine
Calbindin; Immunocytochemistry; Neuron; Development; Hippocampus; Parietal cortex; Calcium (Luiten, P.G.M. (79) 10)

Nitric oxide
Nitric oxide synthase; Guanylyl cyclase; In situ hybridization; cGMP (Giuili, G. (81) 269)

Superior colliculus; Plasticity; Dendrite; Development; NADPH-diaphorase (Vercelli, A.E. (83) 85)

Nitric oxide synthase
NADPH-diaphorase; Lateral collateral pathway; Sacral parasympathetic nucleus; Dorsal horn; Lumbosacral spinal cord (Vizzard, M.A. (81) 201)

Guanylyl cyclase; In situ hybridization; Nitric oxide; cGMP (Giuili, G. (81) 269)

NMDA
Cerebellum; Spinocerebellar; 2-Aminophosphovalerate; Muscimol; Map formation (Tolbert, D.L. (80) 268)

Neocortex; Development; Glutamate; Magnesium; Patch clamp (Burgard, E.C. (80) 275)

D-AP5; Whole-cell voltage-clamp recording; Development; Schild analysis; Hippocampus; Brain slice; Receptor diversity (Brady, R.J. (83) 190)

NMDA receptor
Intracellular free calcium; Spinal cord dorsal horn; Substantia gelatinosa; Postnatal development; Capsaicin; Fine primary afferent fiber (Hori, Y. (80) 141)

NMDA receptor-channel complex
Epilepsy; Schizophrenia; Rat (Sircar, R. (81) 185)

Node of Ranvier
Maturation; Physiology; Potassium channel; Myelin sheath; 4-Aminopyridine; Remodelling; Internodal length (Bowe, C.M. (79) 186)

Non-NMDA
Receptor; Glutamate; Ontogenesis; Thalamus; Electron microscopy (Spreafico, R. (82) 231)

Non-NMDA antagonist
Excitatory amino acid receptor pharmacology; GYKI 52466; Chicken cortical neuron; Cell culture; Whole-cell patch-clamp technique (Osipenko, O. (77) 257)

Non-specific cholinesterase
Neuromuscular development; Synapse elimination; Acetylcholinesterase; Endplate development; Neurotrophic influence (Feng, Y. (79) 151)

Noradrenaline
Serotonin; Neurotoxin; Brain plasticity; Somatosensory cortex; Vibrissa (Osterheld-Haas, M.C. (77) 189)

Astrocyte; Energy metabolism; Glycogen; Glycogenolysis; Glycolysis; Memory stage; Passive avoidance learning; Reinforcement (O'Dowd, B.S. (78) 137)

Prazosin; Idazoxan; Locomotion; L-DOPA; Air-stepping (Taylor, L.L. (79) 242)

Noradrenaline overflow
Functional teratology; Clonidine; In vivo microdialysis; Monoamine metabolism; α_2-Autoreceptor; Idazoxan; Yohimbine (Van Veldhuizen, M.J.A. (79) 275)

Noradrenergic
Adrenal medulla; GAP-43; Neuroendocrine; Adrenergic; Chromaffin cell (Grant, N.J. (82) 265)

Norcocaine
Cocaine; Cocaethylene; Muscarinic receptor; Phosphoinositide metabolism (Tan, X.X. (79) 132)

Norepinephrine
Menkes' disease; Serotonin; Dopamine; Heterotypic sprouting; Mouse; Copper (Martin, P. (77) 215)

Chick embryo; Spinal cord; Cholinergic; Serotonin; Dopamine; Modulatory influence (Thiriet, G. (78) 102)

Dopamine; Nicotine (Seidler, F.J. (82) 1)

Northern blot
Hippocalcin; Ca^{2+}-binding protein; Development; In situ hybridization; Immunoblot; Immunohistochemistry (Saitoh, S. (80) 199)

N-type calcium channel
ω-Conotoxin GVIA; Autoradiography; Rat brain development (Filloux, F. (78) 131)

Nuclear magnetic resonance
Phosphocreatine; Maturation; Diffusion; Taurine; *N*-Acetylaspartate (Nakada, T. (80) 121)

Nucleus accumbens
Dopamine; Electrophysiology; Ventral tegmental area; Mesoaccumbens; Ontogeny; Tegmentum mesencephali (Wang, L. (79) 19)

Nystatin
Acute cell dissociation; Amphotericin B; Hippocampus; Potassium current; Tetraethylammonium (Baraban, S.C. (81) 309)

O

Ochratoxin A
Microcephaly; Synapse-to-neuron ratio; Somatosensory cortex; Visual cortex; Cortical development (Miki, T. (82) 259)

Olfactory blub
Arhinencephaly; Luteinizing hormone-releasing hormone neuron; Neural cell adhesion molecule; Kallmann's syndrome; Greig cephalopolysyndactyly (Naruse, I. (81) 178)

Olfactory bulb
Glycoconjugate; Vomeronasal organ; Monoclonal antibody; Axonal guidance; CNS development (Schwarting, G.A. (78) 191)

Olfactory epithelium
Neuron-specific tubulin; Olfactory marker protein; Olfactory sensory neuron; Immunocytochemistry; TuJ1 (Lee, V.M. (83) 209)

Olfactory–forebrain region
Somatostatin; Development; Immunohistochemistry; LHRH neuron; Cell migration; Chick embryo (Murakami, S. (82) 277)

Olfactory marker protein
Neuron-specific tubulin; Olfactory sensory neuron; Olfactory epithelium; Immunocytochemistry; TuJ1 (Lee, V.M. (83) 209)

Olfactory neural development
Olfactory receptor neuron; Basal cell; Thyroid hormone; Thyroid and neural development; Developmental plasticity; Recovery from neural retardation; Compensatory neural growth; Neuronal proliferation and migration (Paternostro, M.A. (83) 151)

Olfactory placode
Luteinizing hormone-releasing hormone; Chicken GnRH II; FMRFamide; Nervus terminalis; Brain-pituitary-gonad axis; Posterior tubercle (Northcutt, R.G. (78) 279)

Olfactory receptor neuron
Basal cell; Olfactory neural development; Thyroid hormone; Thyroid and neural development; Developmental plasticity; Recovery from neural retardation; Compensatory neural growth; Neuronal proliferation and migration (Paternostro, M.A. (83) 151)

Olfactory sensory neuron
Neuron-specific tubulin; Olfactory marker protein; Olfactory epithelium; Immunocytochemistry; TuJ1 (Lee, V.M. (83) 209)

Olfactory system
Marsupial; Serotonin; Immunocytochemistry (Philpot, B.D. (77) 265)

Cell death; Apoptosis; Ultrastructure; Rat (Pellier, V. (79) 307)

Cell migration; Growth-associated protein; B-50/GAP-43; Development; Immunocytochemistry (Pellier, V. (80) 63)

Oligodendrocyte
Astrocyte; Proteolipid protein; Vimentin; Fibronectin; Smooth muscle myosin (Fujii, J.T. (78) 217)

Oligonucleotide probe
Ontogeny; Mammalian brain; Autoradiography; Muscarinic m_2 mRNA; Laminar pattern, cortical layer; Image analysis (Roßner, S. (77) 55)

Olivocochlear-efferent innervating
Choline acetyltransferase; Cochlea; Rat (Merchán-Pérez, A. (82) 29)

Ontogenesis
Retina; Morphometry; Column; Radial glia; Stem cell (Reichenbach, A. (79) 72)

TBPS-binding; $GABA_A$ receptor; β-Carboline; Benzodiazepine; Bicuculline; Cerebral cortex of rat (Giorgi, O. (80) 73)

Opioid receptor; Buprenorphine; Rat central nervous system; Opioid peptide; In utero drug exposure; Down-regulation (Belcheva, M.M. (80) 158)

Plasminogen activator (Friedman, G.C. (81) 41)

Receptor; Glutamate; Non-NMDA; Thalamus; Electron microscopy (Spreafico, R. (82) 231)

Ontogeny
Mammalian brain; Autoradiography; Muscarinic m_2 mRNA; Laminar pattern, cortical layer; Oligonucleotide probe; Image analysis (Roßner, S. (77) 55)

Nervous system; Macaque; Vision; Area 17; Area 18 (Barone, P. (77) 290)

Somatostatin; Hybridization histochemistry (Burgunder, J.-M. (78) 109)

δ Opioid receptor; Weaning; Naltriben; Expression; δ Subtype (Kitchen, I. (78) 147)

Preproenkephalin mRNA expression; cAMP production; Haloperidol; Met-enkephalin; Opioid receptor; Dopamine receptor (De Vries, T.J. (78) 175)

Dopamine; Electrophysiology; Nucleus accumbens; Ventral tegmental area; Mesoaccumbens; Tegmentum mesencephali (Wang, L. (79) 19)

Hypothalamic-pituitary-adrenal; Endotoxin; Gonadal steroid (Shanks, N. (79) 260)

Oxytocin; Receptor; Development; Hippocampus; Stress; Maternal separation (Noonan, L.R. (80) 115)

Carboxypeptidase H (EC 3.4.17.10); Neutral endopeptidase 24.11 (EC 3.4.24.11); Metallo endopeptidase 24.15 (EC 3.4.24.15); Cholecystokinin; Hypothalamus; Cortex; Cerebellum (Oakes, M.G. (80) 127)

Calcitonin gene-related peptide; Dorsal root ganglion; Capsaicin; Resiniferatoxin (Jakab, G. (80) 290)

Hippocampus; Epileptic afterdischarge; Wet dog shake; Ketamine; Rat (Mikolášová, R. (81) 105)

Pituitary adenylate cyclase-activating polypeptide; Pituitary adenylate cyclase-activating polypeptide receptor; Cerebellum; External granule cell layer; Internal granule cell layer; Medulla; Quantitative autoradiography (Basille, M. (82) 81)

Neuropeptide FF; Autoradiography; Receptor; Analgesia; Opioid (Desprat, C. (82) 118)

Locomotion; L-DOPA; Gait; Neonatal rat (McCrea, A.E. (82) 136)

Locomotion; Gait; Kinematics; Coordination; Neonatal rat; L-DOPA; Dynamical system (Stehouwer, D.J. (82) 143)

Aromatase; Testosterone; Estradiol; Hypothalamus; Preoptic area; Amygdala; Cortex; Aggression (Compaan, J.C. (82) 185)

Adenosine A_1 receptor; Caffeine; Autoradiography; Thalamus; Cerebellum; Hippocampus; Purinergic receptor (Etzel, B.A. (82) 223)

Opioid
Neuropeptide FF; Ontogeny; Autoradiography; Receptor; Analgesia (Desprat, C. (82) 118)

Opioid peptide
Ontogenesis; Opioid receptor; Buprenorphine; Rat central nervous system; In utero drug exposure; Down-regulation (Belcheva, M.M. (80) 158)

Nigrostriatal pathway; Dopamine; Postnatal development (Pickel, V.M. (83) 163)

Opioid receptor
Ontogeny; Preproenkephalin mRNA expression; cAMP production; Haloperidol; Metenkephalin; Dopamine receptor (De Vries, T.J. (78) 175)

Ontogenesis; Buprenorphine; Rat central nervous system; Opioid peptide; In utero drug exposure; Down-regulation (Belcheva, M.M. (80) 158)

δ Opioid receptor
Weaning; Ontogeny; Naltriben; Expression; δ Subtype (Kitchen, I. (78) 147)

Optic nerve
Visual system; Plasticity; Synaptogenesis; Development; Immunohistochemistry (Kapfhammer, J.P. (80) 251)

Receptor tyrosine kinase; Retinal ganglion cell; Amacrine cell; Neurotrophin; Retina; Zebrafish (Sandell, J.H. (81) 192)

Organotypic coculture
Vibrissa pad; Brainstem trigeminal complex; Axon growth; Axonal plasticity; Regeneration (Erzurumlu, R.S. (83) 132)

Organotypic culture
Cat; Geniculocortical projection; Growth factor; Mouse; Target recognition (Lotto, R.B. (81) 17)

Ornithine decarboxylase
Chronic hypoxia; Carbon monoxide; Polyamine; Fetus (Packianathan, S. (83) 138)

Nicotine; Detour learning; Growth; cAMP; cAMP-dependent protein kinase; Insulin; Insulin binding (Pennington, S.N. (83) 181)

Outer segment
Xenopus laevis; Photoreceptor; Morphogenesis; In vitro (Stiemke, M.M. (80) 285)

Outgrowth
Neurite initiation; BAPTA; Set point; Growth cone (Zimprich, F. (80) 7)

Brain-derived neurotrophic factor; Retina; Transplantation; Tropic (Panni, M.K. (81) 325)

Ovarian sex steroid
Cerebellar development; Neonatal ovariectomy; Granule cell; Purkinje cell; Foliation; Neurogenesis; Neuronal death (Litteria, M. (81) 113)

Oxidative enzyme activity
Postnatal development; Spinal motoneuron; Cell body size; Tibialis anterior muscle; Fluorescent neuronal tracer; Histochemistry; Rat (Ishihara, A. (83) 28)

Oxytocin
Primate; Vasopressin; Tritiated thymidine (Van Eerdenburg, F.J.C.M. (79) 290)

Receptor; Development; Ontogeny; Hippocampus; Stress; Maternal separation (Noonan, L.R. (80) 115)

Tyrosine hydroxylase; Human hypothalamus; Paraventricular nucleus; Supraoptic nucleus; Vasopressin; Perinatal hypoxia; Fetal stress (Panayotacopoulou, M.T. (83) 59)

P

$p75^{LNGFR}$
Low-affinity NGF receptor; Trophic factor; Recovery of function; Cholinergic cell; Regeneration (Van Eden, C.G. (82) 167)

Paedomorphosis
Neural cell adhesion molecule; Metamorphosis; *Pleurodeles waltl*; Thyroid hormone; Retinoic acid (Becker, C.G. (79) 140)

Paired-pulse depression
$GABA_A$ receptor; Granule cell; Hippocampus; Inhibition (DiScenna, P.G. (77) 295)

Hippocampus; Perforant path kindling; Long-term potentiation; Dentate gyrus; Nervous system (Trommer, B.L. (79) 115)

Paired-pulse facilitation
Infant seizure; Hippocampal slice; Excitatory postsynaptic potential (Zhao, D. (80) 190)

Paired-pulse stimulation
Visual cortex; Hippocampus; Lead neurotoxicity; Long-term potentiation; Long-term depression (Altmann, L. (81) 50)

Papillae number
Taste development; Anterior tongue; Sweetness sensitivity; (Human) (Stein, N. (82) 286)

Parachloroamphetamine
Serotonin; Neonate; Hippocampal formation; HPLC; Synaptosomal uptake (Haring, J.H. (83) 142)

Paraventricular nucleus
Peking duck; Subfornical organ; Anteroventral third ventricular region; AV3V region; Choroid plexus; Limbic system; ANGII; Angiotensin II; Angiotensin receptor (Müller, A.R. (78) 10)

Tyrosine hydroxylase; Human hypothalamus; Supraoptic nucleus; Oxytocin; Vasopressin; Perinatal hypoxia; Fetal stress (Panayotacopoulou, M.T. (83) 59)

Parietal cortex
Calbindin; Immunocytochemistry; Neuron; Development; Nimodipine; Hippocampus; Calcium (Luiten, P.G.M. (79) 10)

Parvalbumin
γ-Aminobutyric acidergic neuron; Calbindin; Striate cortex; Extrastriate cortex (Hogan, D. (77) 1)

Calcium-binding protein; S-100β; Immunocytochemistry; Hippocampus; Neocortex (Buwalda, B. (78) 210)

Neurotrophin-3; Calcium-binding protein; Dorsal root ganglion; Calretinin; Calbindin-D28k; Neurotrophic factor (Copray, J.C.V.M. (81) 57)

Parvicellular
Magnocellular; Arginine-vasopressin immunoreactivity; Autoradiography; Arginine-vasopressin projection; Suprachiasmatic nucleus (Delville, Y. (81) 230)

Passive avoidance learning
Astrocyte; Energy metabolism; Glycogen; Glycogenolysis; Glycolysis; Memory stage; Noradrenaline; Reinforcement (O'Dowd, B.S. (78) 137)

Patch-clamp
Gap junction; Sodium channel; Development; Tetrodotoxin; Telencephalon; Cortex (Mienville, J.-M. (77) 89)

Patch clamp
NMDA; Neocortex; Development; Glutamate; Magnesium (Burgard, E.C. (80) 275)

Patch matrix
Striatum; Development; Bromodeoxyuridine; Birthdating; Neuronal migration (Song, D.D. (83) 233)

Pathology
Animal model; Cerebellar dysplasia; Lewis rat; Neurogenesis; Mutant; Vermis defect; Rhombencephalosynapsis (Kuwamura, M. (83) 294)

Pathway formation
Corticospinal tract; Target finding; Collateral; Horseradish peroxidase; DiI; Spinal cord (Joosten, E.A.J. (79) 122)

Pediatric epilepsy
Hippocampus; Mossy fiber sprouting; Neuron loss; Granule cell development (Mathern, G.W. (78) 70)

Peking duck
Subfornical organ; Anteroventral third ventricular region; AV3V region; Choroid plexus; Paraventricular nucleus; Limbic system; ANGII; Angiotensin II; Angiotensin receptor (Müller, A.R. (78) 10)

Perforant path kindling
Hippocampus; Long-term potentiation; Paired-pulse depression; Dentate gyrus; Nervous system (Trommer, B.L. (79) 115)

Pericyte
Brain vessel; C-CAM; Cell adhesion; Developing CNS; Endothelial cell (Sawa, H. (78) 35)

Perinatal hypoxia
Tyrosine hydroxylase; Human hypothalamus; Paraventricular nucleus; Supraoptic nucleus; Oxytocin; Vasopressin; Fetal stress (Panayotacopoulou, M.T. (83) 59)

Peripheral nervous system
Central nervous system; Myelin; Ceramide galactosyltransferase; Phosphatidylcholine; Trembler (Garbay, B. (83) 119)

Peripherin
Fibroblast growth factor; Neural crest cell; Neurofilament; Neuronal differentiation; Tetanus toxin C (Bannerman, P.G. (83) 146)

Periventricular leukomalacia
Neonate; Dog; Carotid artery occlusion; Cerebral ischemia (Yoshioka, H. (78) 273)

PGP 9.5
Immunocytochemistry; Receptor cell; Receptor-free epithelium; Vomeronasal vein (Johnson, E.W. (78) 259)

Retina; Development; Axotomy; Rat (Chen, S.T. (78) 265)

Phosphatidylcholine
Central nervous system; Peripheral nervous system; Myelin; Ceramide galactosyltransferase; Trembler (Garbay, B. (83) 119)

Phosphocreatine
Maturation; Diffusion; Nuclear magnetic resonance; Taurine; *N*-Acetylaspartate (Nakada, T. (80) 121)

Astrocyte; ATP; Energy metabolism; Ischemia; Neonatal brain damage (Yager, J.Y. (82) 62)

Phosphoinositide metabolism
Cocaine; Norcocaine; Cocaethylene; Muscarinic receptor (Tan, X.X. (79) 132)

Phospholipase A_2
Long-term depression; Hippocampus; Slice; Plasticity; Learning; Development (Fitzpatrick, J.S. (78) 81)

Phosphorylation
Protein kinase M; Zeta; Synaptic plasticity; Long-term potentiation (Jiang, X. (78) 291)

Plasticity; Neurofilament; Visual cortex (Liu, Y. (81) 151)

Photoaffinity
Dopamine; Transporter; Cocaine; Development; Glycosylation; Striatum (Patel, A.P. (83) 53)

Photoreceptor
Xenopus laevis; Outer segment; Morphogenesis; In vitro (Stiemke, M.M. (80) 285)

Photoreceptor development
Experimental retinal transplantation; Color-specific cone; Immunocytochemistry (Szél, Á. (81) 1)

Physiology
Maturation; Potassium channel; Myelin sheath; 4-Aminopyridine; Remodelling; Internodal length; Node of Ranvier (Bowe, C.M. (79) 186)

Picrotoxin
Cerebellum; Development; Bicuculline; Inhibitory synapse; Sprouting; Circuit reorganization (Seil, F.J. (77) 123)

Pituitary adenylate cyclase-activating polypeptide
Pituitary adenylate cyclase-activating polypeptide receptor; Cerebellum; Ontogeny; External granule cell layer; Internal granule cell layer; Medulla; Quantitative autoradiography (Basille, M. (82) 81)

Pituitary adenylate cyclase-activating polypeptide receptor
Pituitary adenylate cyclase-activating polypeptide; Cerebellum; Ontogeny; External granule cell layer; Internal granule cell layer; Medulla; Quantitative autoradiography (Basille, M. (82) 81)

Plasminogen activator
Ontogenesis (Friedman, G.C. (81) 41)

Plasticity
Long-term depression; Phospholipase A_2; Hippocampus; Slice; Learning; Development (Fitzpatrick, J.S. (78) 81)

Acetylcholine receptor; Visual cortex (Liu, Y. (79) 63)

Visual system; Synaptogenesis; Development; Immunohistochemistry; Optic nerve (Kapfhammer, J.P. (80) 251)

Chick; Hyperstriatum ventrale; Intermediate part of the hyperstriatum ventrale; Medial part of the hyperstriatum ventrale; Synapse; Visual experience (Bradley, P.M. (80) 295)

Neurofilament; Phosphorylation; Visual cortex (Liu, Y. (81) 151)

Visual system; Interocular interaction; Critical period (Serfaty, C.A. (82) 35)

Dopamine β-hydroxylase; Development; Cat; Visual cortex (Liu, Y. (82) 90)

Calcitonin gene-related peptide; Enkephalin; Galanin; Growth-associated protein; Immunohistochemistry; In situ hybridization; Neurofilament; Neuropeptide Y; Neurotensin (Holgert, H. (83) 35)

Superior colliculus; Nitric oxide; Dendrite; Development; NADPH-diaphorase (Vercelli, A.E. (83) 85)

Platelet-activating factor
Arachidonic acid; Inositol phosphate (Petroni, A. (78) 169)

Pleiotrophin
Heparin-binding growth factor; Midkine; Immunocytochemistry; Cerebral development; Rat (Matsumoto, K. (79) 229)

Pleurodeles waltl
Neural cell adhesion molecule; Metamorphosis; Thyroid hormone; Retinoic acid; Paedomorphosis (Becker, C.G. (79) 140)

PNMT
Mouse; Adrenal; Medulla; Hippocampus; Synapse; Morphometry; Choline acetyltransferase; Acetylcholinesterase; Neuron-specific enolase; Immunocytochemistry (Jousselin-Hosaja, M. (79) 321)

Polyamine
Chronic hypoxia; Carbon monoxide; Ornithine decarboxylase; Fetus (Packianathan, S. (83) 138)

Posterior tubercle
Luteinizing hormone-releasing hormone; Chicken GnRH II; FMRFamide; Olfactory placode; Nervus terminalis; Brain-pituitary-gonad axis (Northcutt, R.G. (78) 279)

Postnatal development
Corticospinal tract; Transient projection; Cervical spinal cord; Rat (Curfs, M.H.J.M. (78) 182)

Intracellular free calcium; NMDA receptor; Spinal cord dorsal horn; Substantia gelatinosa; Capsaicin; Fine primary afferent fiber (Hori, Y. (80) 141)

Spinal motoneuron; Cell body size; Oxidative enzyme activity; Tibialis anterior muscle; Fluorescent neuronal tracer; Histochemistry; Rat (Ishihara, A. (83) 28)

Opioid peptide; Nigrostriatal pathway; Dopamine (Pickel, V.M. (83) 163)

Postnatal handling
Serotonin; Glucocorticoid receptor; serotonin 5-HT_2 receptor; Hippocampus; Frontal cortex (Smythe, J.W. (80) 183)

Postnatal neuron
Nerve growth factor; Neurotrophin; Choline acetyltransferase activity; Acetylcholinesterase; Neuronal survival; Central cholinergic neuron (Nonner, D. (79) 219)

Potassium
Dopamine; Development/ontogeny; Microdialysis; Quinpirole; Autoreceptor; Sulpiride; Dopamine D_2 receptor (Andersen, S.L. (78) 123)

Alanine; Energy metabolism; Cerebellar granule cell; Glutamate; Glutamine (Peng, L. (79) 128)

Potassium channel
Maturation; Physiology; Myelin sheath; 4-Aminopyridine; Remodelling; Internodal length; Node of Ranvier (Bowe, C.M. (79) 186)

Potassium current
Acute cell dissociation; Amphotericin B; Hippocampus; Nystatin; Tetraethylammonium (Baraban, S.C. (81) 309)

P0 protein mRNA
Spinal root; Sciatic nerve; Development; In situ hybridization (Baron, P. (83) 285)

Prazosin
Noradrenaline; Idazoxan; Locomotion; L-DOPA; Air-stepping (Taylor, L.L. (79) 242)

Prenatal
Nicotine; In utero; Development; Neurotoxicity; Hormone; ACTH; Prolactin (Poland, R.E. (83) 278)

Prenatal development
Corpus callosum; Anterior commissure; Inbred strain; Recombinant inbred strain; Morphometry (Wahlsten, D. (77) 203)

Preoptic area
Gonadotropin releasing hormone; Terminal nerve; Soma size; Development (Francis, R.C. (78) 151)

Brain development; Sexual differentiation; Estrogen receptor; mRNA; In situ hybridization histochemistry (DonCarlos, L.L. (79) 283)

Aromatase; Testosterone; Estradiol; Hypothalamus; Amygdala; Cortex; Ontogeny; Aggression (Compaan, J.C. (82) 185)

Preproenkephalin mRNA expression
Ontogeny; cAMP production; Haloperidol; Met-enkephalin; Opioid receptor; Dopamine receptor (De Vries, T.J. (78) 175)

Preweanling rat
Behavioral inhibition; Freezing; Ultrasonic vocalization; Conspecific threat; Social isolation; Adrenal steroid; Corticosterone; Adrenalectomy (Takahashi, L.K. (81) 121)

Primary culture
Serotonin 5-HT_{1A} receptor; Serotoninergic neuron; Rat embryo; In situ hybridization; Immunocytochemistry (Hillion, J. (79) 195)

Septum; Cholinergic neuron; Choline acetyltransferase; Serotonin 5-HT_{1A} receptor; Immunocytochemistry; Ipsapirone (Riad, M. (82) 245)

Primary olfactory cortex
Thymidine autoradiography; Golgi method; Development (Valverde, F. (80) 96)

Primate
Vasopressin; Oxytocin; Tritiated thymidine (Van Eerdenburg, F.J.C.M. (79) 290)

Processing
Synenkephalin; Enkephalin; Brain; Development (Rodriguez Vida, M.I. (77) 151)

Programmed cell death
Nerve growth factor; Depolarization; Choline acetyltransferase; Acetylcholinesterase (Nakamura, M. (81) 218)

Prolactin
Nicotine; In utero; Prenatal; Development; Neurotoxicity; Hormone; ACTH (Poland, R.E. (83) 278)

Proliferation
Growth factor; Retina; Glial cell; Müller cell; Tissue culture (Scherer, J. (80) 209)

Propylbenzilylcholine mustard
Amacrine cell; Quinuclidinylbenzilate; Synaptic stabilization; Visual system (Hutchins, J.B. (82) 45)

Protein kinase M
Zeta; Synaptic plasticity; Phosphorylation; Long-term potentiation (Jiang, X. (78) 291)

Proteoglycan
Differentiation; Neurite promoting; Heparan sulphate (Dow, K.E. (80) 175)

Proteolipid protein
Oligodendrocyte; Astrocyte; Vimentin; Fibronectin; Smooth muscle myosin (Fujii, J.T. (78) 217)

Puberty
Hypothalamus; Amino acid neurotransmitter; Aspartate; Glutamate; Homocysteic acid; Taurine; Glycine; GABA (Goroll, D. (77) 183)

Androgen receptor; Ferret; Hypothalamus; Immunocytochemistry; Reproductive behavior; Testosterone (Kashon, M.L. (78) 237)

Purinergic receptor
Adenosine A_1 receptor; Caffeine; Autoradiography; Thalamus; Cerebellum; Hippocampus; Ontogeny (Etzel, B.A. (82) 223)

Purkinje cell
Reactive astrocyte; Band formation; Bergmann glia; Transient expression; Stellate-basket cell; Signal transduction (Chen, S. (80) 19)

Cerebellar development; Neonatal ovariectomy; Ovarian sex steroid; Granule cell; Foliation; Neurogenesis; Neuronal death (Litteria, M. (81) 113)

Cerebellum; Golgi; Cell death; Granule cell (Shojaeian Zanjani, H. (82) 18)

***trans*-Pyrrolidine-2,4-dicarboxylic acid**
Glutamate; Uptake; Epilepsy; Audiogenic seizure; Development (Cordero, M.L. (78) 44)

Pyruvate dehydrogenase
Expression; Mouse embryo; Development of brain; Energy metabolism; Brain malformation; Pyruvate dehydrogenase deficiency; Central nervous system (Takakubo, F. (77) 63)

Pyruvate dehydrogenase deficiency
Pyruvate dehydrogenase; Expression; Mouse embryo; Development of brain; Energy metabolism; Brain malformation; Central nervous system (Takakubo, F. (77) 63)

Q

Quantitative autoradiography
Pituitary adenylate cyclase-activating polypeptide; Pituitary adenylate cyclase-activating polypeptide receptor; Cerebellum; Ontogeny; External granule cell layer; Internal granule cell layer; Medulla (Basille, M. (82) 81)

Quantitative electron microscopy
Thyroid hormone; Loyez stain; DiI tracing (Guadaño Ferraz, A. (81) 293)

Quinpirole
Dopamine; Development/ontogeny; Microdialysis; Autoreceptor; Potassium; Sulpiride; Dopamine D_2 receptor (Andersen, S.L. (78) 123)

Quinuclidinylbenzilate
Amacrine cell; Propylbenzilylcholine mustard; Synaptic stabilization; Visual system (Hutchins, J.B. (82) 45)

R

Rabbit retina
Horizontal cell; In vitro differentiation; Morphological differentiation; GABA; Neurofilament (Löhrke, S. (77) 97)

Radial glia
Retina; Ontogenesis; Morphometry; Column; Stem cell (Reichenbach, A. (79) 72)

Astrocyte; Microgyria; Freezing injury; Brain damage; Neocortex (Rosen, G.D. (82) 127)

Rat
Cerebral cortex; Substance P; Neurokinin B; Development; Gene expression (Zhang, L. (77) 23)

Corticospinal tract; Transient projection; Postnatal development; Cervical spinal cord (Curfs, M.H.J.M. (78) 182)

Guidance; Neural cell adhesion molecule; Target innervation; Corticospinal tract; Immunocytochemistry (Joosten, E.A.J. (78) 226)

Fetus; Newborn; Respiratory centre; Development; Rhythm; In vitro (Di Pasquale, E. (78) 243)

PGP 9.5; Retina; Development; Axotomy (Chen, S.T. (78) 265)

NADPH-diaphorase; Neocortex (Yan, X.X. (79) 29)

Calcium; Calcium current; Fura-2; $[Ca^{2+}]_i$; Hypothalamus; Somatostatin (Desarménien, M.G. (79) 85)

Heparin-binding growth factor; Pleiotrophin; Midkine; Immunocytochemistry; Cerebral development (Matsumoto, K. (79) 229)

GABA receptor; Substantia nigra; Seizure; GABA; Development (Velíšková, J. (79) 297)

Cell death; Apoptosis; Olfactory system; Ultrastructure (Pellier, V. (79) 307)

Respiratory centre; Serotonin; Fetus; Development; In vitro (Di Pasquale, E. (80) 222)

Development; Electromyography; Soleus; Motor unit (Westerga, J. (80) 233)

Hippocampus; Epileptic afterdischarge; Wet dog shake; Ketamine; Ontogeny (Mikolášová, R. (81) 105)

Brain; Cytokine; Development; mRNA; Reverse transcriptase-PCR (Pousset, F. (81) 143)

Epilepsy; NMDA receptor-channel complex; Schizophrenia (Sircar, R. (81) 185)

α-Brain spectrin; In situ hybridization; Neuronal maturation (Gelot, A. (81) 240)

Cell culture; Tyrosine hydroxylase; Brain-derived neurotrophic factor; Dopamine; Cerebral cortex (Zhou, J. (81) 318)

Choline acetyltransferase; Cochlea; Olivocochlear-efferent innervating (Merchán-Pérez, A. (82) 29)

Neuron-specific enolase; Development; Retina; Immunocytochemistry (Fujieda, H. (82) 69)

Cell death; Sensory innervation (Coggeshall, R.E. (82) 193)

Postnatal development; Spinal motoneuron; Cell body size; Oxidative enzyme activity; Tibialis anterior muscle; Fluorescent neuronal tracer; Histochemistry (Ishihara, A. (83) 28)

Rat brain development
ω-Conotoxin GVIA; N-type calcium channel; Autoradiography (Filloux, F. (78) 131)

Rat central nervous system
Ontogenesis; Opioid receptor; Buprenorphine; Opioid peptide; In utero drug exposure; Down-regulation (Belcheva, M.M. (80) 158)

Rat embryo
Serotonin 5-HT_{1A} receptor; Serotoninergic neuron; Primary culture; In situ hybridization; Immunocytochemistry (Hillion, J. (79) 195)

Rat forebrain
Growth cone membrane; Ganglioside; *O*-Acetylated ganglioside; Brain development; Axonal growth (Igarashi, M. (78) 17)

Reactive astrocyte
Band formation; Bergmann glia; Transient expression; Purkinje cell; Stellate-basket cell; Signal transduction (Chen, S. (80) 19)

Receptor
Oxytocin; Development; Ontogeny; Hippocampus; Stress; Maternal separation (Noonan, L.R. (80) 115)

Neuropeptide FF; Ontogeny; Autoradiography; Analgesia; Opioid (Desprat, C. (82) 118)

Glutamate; Non-NMDA; Ontogenesis; Thalamus; Electron microscopy (Spreafico, R. (82) 231)

Receptor cell
PGP 9.5; Immunocytochemistry; Receptor-free epithelium; Vomeronasal vein (Johnson, E.W. (78) 259)

Receptor diversity
NMDA; D-AP5; Whole-cell voltage-clamp recording; Development; Schild analysis; Hippocampus; Brain slice (Brady, R.J. (83) 190)

Receptor-free epithelium
PGP 9.5; Immunocytochemistry; Receptor cell; Vomeronasal vein (Johnson, E.W. (78) 259)

Receptor tyrosine kinase
Retinal ganglion cell; Amacrine cell; Optic nerve; Neurotrophin; Retina; Zebrafish (Sandell, J.H. (81) 192)

Recombinant inbred strain
Corpus callosum; Anterior commissure; Prenatal development; Inbred strain; Morphometry (Wahlsten, D. (77) 203)

Recovery from neural retardation
Olfactory receptor neuron; Basal cell; Olfactory neural development; Thyroid hormone; Thyroid and neural development; Developmental plasticity; Compensatory neural growth; Neuronal proliferation and migration (Paternostro, M.A. (83) 151)

Recovery of function
Low-affinity NGF receptor; $p75^{LNGFR}$; Trophic factor; Cholinergic cell; Regeneration (Van Eden, C.G. (82) 167)

Regeneration
Castanospermine; α-Glucosidase inhibition; Sympathetic nerve; Neurite growth; Inhibition (Abotomey, C. (79) 101)

Retina; Extracellular matrix; Frog; Laminin; Heparan sulfate proteoglycan (Nagy, T. (81) 131)

Low-affinity NGF receptor; $p75^{LNGFR}$; Trophic factor; Recovery of function; Cholinergic cell (Van Eden, C.G. (82) 167)

Vibrissa pad; Brainstem trigeminal complex; Axon growth; Axonal plasticity; Organotypic coculture (Erzurumlu, R.S. (83) 132)

Reinforcement
Astrocyte; Energy metabolism; Glycogen; Glycogenolysis; Glycolysis; Memory stage; Noradrenaline; Passive avoidance learning (O'Dowd, B.S. (78) 137)

Remodelling
Maturation; Physiology; Potassium channel; Myelin sheath; 4-Aminopyridine; Internodal length; Node of Ranvier (Bowe, C.M. (79) 186)

Reproductive behavior
Androgen receptor; Ferret; Hypothalamus; Immunocytochemistry; Puberty; Testosterone (Kashon, M.L. (78) 237)

Resiniferatoxin
Calcitonin gene-related peptide; Ontogeny; Dorsal root ganglion; Capsaicin (Jakab, G. (80) 290)

Respiratory centre
Fetus; Newborn; Rat; Development; Rhythm; In vitro (Di Pasquale, E. (78) 243)

Serotonin; Fetus; Rat; Development; In vitro (Di Pasquale, E. (80) 222)

Respiratory failure
Diaphragm; μ Conotoxin; Endplate potential (Bazzy, A.R. (81) 314)

Retina
Biosynthesis; Development; Light-driven; Somatostatin; Somatostatin-14; Somatostatin-28 (Dowton, M. (78) 65)

Spinal cord; Sensory neuron development; Neuronal specificity; Axon outgrowth; Membrane protein (Halfter, W. (78) 87)

PGP 9.5; Development; Axotomy; Rat (Chen, S.T. (78) 265)

Ontogenesis; Morphometry; Column; Radial glia; Stem cell (Reichenbach, A. (79) 72)

Growth factor; Glial cell; Müller cell; Proliferation; Tissue culture (Scherer, J. (80) 209)

Regeneration; Extracellular matrix; Frog; Laminin; Heparan sulfate proteoglycan (Nagy, T. (81) 131)

Receptor tyrosine kinase; Retinal ganglion cell; Amacrine cell; Optic nerve; Neurotrophin; Zebrafish (Sandell, J.H. (81) 192)

Brain-derived neurotrophic factor; Outgrowth; Transplantation; Tropic (Panni, M.K. (81) 325)

Neuron-specific enolase; Development; Immunocytochemistry; Rat (Fujieda, H. (82) 69)

Chick; Amacrine cell; Voltage-dependent current; Excitatory amino acid; GABA (Yamashita, M. (82) 95)

GABA; Embryonic development; Turtle; Neurotransmitter; Immunohistochemistry (Versaux-Botteri, C. (83) 125)

Retinal ganglion cell
Receptor tyrosine kinase; Amacrine cell; Optic nerve; Neurotrophin; Retina; Zebrafish (Sandell, J.H. (81) 192)

Retinal transplantation
Human retina; Cell marker; Neuron-specific enolase; Synaptophysin; S-Antigen; Rhodopsin; α-Transducin; Vimentin; Cellular retinaldehyde-binding protein; Glial fibrillary acidic protein (Seiler, M.J. (80) 81)

Retinoic acid
Neural cell adhesion molecule; Metamorphosis; *Pleurodeles waltl*; Thyroid hormone; Paedomorphosis (Becker, C.G. (79) 140)

Neuronal immortalization; Controllable oncogene; APUD cell; Serotonin; Trophic effect (Stringer, B.M.J. (79) 267)

Retinoic acid receptor
Neurogenesis; Neuronal differentiation (Yamagata, T. (77) 163)

Retrograde tracing
Neurogenesis; Spinothalamic tract; Spinocerebellar tract; Development; Spinal cord (Beal, J.A. (78) 49)

Basal forebrain; Medial septum; Synaptic development; Spine; Neuronal differentiation (Linke, R. (83) 67)

Reverse transcriptase-PCR
Brain; Cytokine; Development; mRNA; Rat (Pousset, F. (81) 143)

Rhodopsin
Retinal transplantation; Human retina; Cell marker; Neuron-specific enolase; Synaptophysin; S-Antigen; α-Transducin; Vimentin; Cellular retinaldehyde-binding protein; Glial fibrillary acidic protein (Seiler, M.J. (80) 81)

Rhombencephalosynapsis
Animal model; Cerebellar dysplasia; Lewis rat; Neurogenesis; Mutant; Pathology; Vermis defect (Kuwamura, M. (83) 294)

Rhythm
Fetus; Newborn; Rat; Respiratory centre; Development; In vitro (Di Pasquale, E. (78) 243)

mRNA
Brain development; Sexual differentiation; Estrogen receptor; Preoptic area; In situ hybridization histochemistry (DonCarlos, L.L. (79) 283)

Forebrain; Sodium channel; Saxitoxin receptor; Saxitoxin affinity; Single channel (Villegas, R. (81) 26)

Brain; Cytokine; Development; Reverse transcriptase-PCR; Rat (Pousset, F. (81) 143)

Roller tube
Mossy fiber; Synapse; Development; Electron microscopy (Robain, O. (80) 244)

S

Sacral parasympathetic nucleus
NADPH-diaphorase; Nitric oxide synthase; Lateral collateral pathway; Dorsal horn; Lumbosacral spinal cord (Vizzard, M.A. (81) 201)

Saxitoxin affinity
Forebrain; Sodium channel; Saxitoxin receptor; Single channel; mRNA (Villegas, R. (81) 26)

Saxitoxin receptor
Forebrain; Sodium channel; Saxitoxin affinity; Single channel; mRNA (Villegas, R. (81) 26)

S-100β
Calcium-binding protein; Parvalbumin; Immunocytochemistry; Hippocampus; Neocortex (Buwalda, B. (78) 210)

Schild analysis
NMDA; D-AP5; Whole-cell voltage-clamp recording; Development; Hippocampus; Brain slice; Receptor diversity (Brady, R.J. (83) 190)

Schizophrenia
Epilepsy; NMDA receptor-channel complex; Rat (Sircar, R. (81) 185)

Sciatic nerve
P0 protein mRNA; Spinal root; Development; In situ hybridization (Baron, P. (83) 285)

Seizure
GABA receptor; Substantia nigra; GABA; Rat; Development (Velíšková, J. (79) 297)

Sensory brainstem structure
Insulin-like growth factor; Muscle-derived neurotrophic factor; Facial nucleus; Hypoglossal nucleus; Cranial motoneuron; Lumbar muscle; Tongue; Trophic effect (Eustache, I. (81) 284)

Sensory innervation
Cell death; Rat (Coggeshall, R.E. (82) 193)

Sensory neuron
Thymosin β; Actin binding; Neural development; In situ hybridization; Immunohistochemistry; Amphibian (Yamamoto, M. (79) 177)

Dorsal horn; Development; Axonal growth; Dorsal root ganglion (Mendelson, B. (82) 152)

Neural crest; Capsaicin; Development; Histochemistry (Matsumoto, S.G. (83) 17)

Sensory neuron development
Spinal cord; Retina; Neuronal specificity; Axon outgrowth; Membrane protein (Halfter, W. (78) 87)

Septal nucleus
Cholinergic development; Hippocampal cholinergic neurostimulating peptide; Nerve growth factor (Ojika, K. (79) 1)

Septum
Primary culture; Cholinergic neuron; Choline acetyltransferase; Serotonin 5-HT_{1A} receptor; Immunocytochemistry; Ipsapirone (Riad, M. (82) 245)

Serotonin
Noradrenaline; Neurotoxin; Brain plasticity; Somatosensory cortex; Vibrissa (Osterheld-Haas, M.C. (77) 189)

Menkes' disease; Norepinephrine; Dopamine; Heterotypic sprouting; Mouse; Copper (Martin, P. (77) 215)

Olfactory system; Marsupial; Immunocytochemistry (Philpot, B.D. (77) 265)

Chick embryo; Spinal cord; Cholinergic; Norepinephrine; Dopamine; Modulatory influence (Thiriet, G. (78) 102)

Neuronal immortalization; Controllable oncogene; APUD cell; Trophic effect; Retinoic acid (Stringer, B.M.J. (79) 267)

Barrel; Neuronal activity; Tetrodotoxin; Trigeminal system; DiI (Chiaia, N.L. (79) 301)

Postnatal handling; Glucocorticoid receptor; serotonin 5-HT_2 receptor; Hippocampus; Frontal cortex (Smythe, J.W. (80) 183)

Respiratory centre; Fetus; Rat; Development; In vitro (Di Pasquale, E. (80) 222)

Neonate; Parachloroamphetamine; Hippocampal formation; HPLC; Synaptosomal uptake (Haring, J.H. (83) 142)

Serotoninergic neuron
Serotonin 5-HT_{1A} receptor; Rat embryo; Primary culture; In situ hybridization; Immunocytochemistry (Hillion, J. (79) 195)

Serotonin 5-HT_{1A} receptor
Serotoninergic neuron; Rat embryo; Primary culture; In situ hybridization; Immunocytochemistry (Hillion, J. (79) 195)

Neuroplasticity; Dorsal raphe nucleus; Neonatal 5,7-dihydroxytryptamine; 8-hydroxy-DPAT (Pranzatelli, M.R. (80) 1)

Primary culture; Septum; Cholinergic neuron; Choline acetyltransferase; Immunocytochemistry; Ipsapirone (Riad, M. (82) 245)

serotonin 5-HT_{1A} receptor mRNA
Cerebellum (Miquel, M.C. (80) 149)

serotonin 5-HT_2 receptor
Serotonin; Postnatal handling; Glucocorticoid receptor; Hippocampus; Frontal cortex (Smythe, J.W. (80) 183)

Set point
Neurite initiation; Outgrowth; BAPTA; Growth cone (Zimprich, F. (80) 7)

Sexual differentiation
Zebra finch; Birdsong; Higher vocal center; Estrogen; Neurogenesis (Burek, M.J. (78) 57)

Brain development; Estrogen receptor; Preoptic area; mRNA; In situ hybridization histochemistry (DonCarlos, L.L. (79) 283)

Sexual dimorphy
Vasoactive intestinal polypeptide; Vasopressin; Human suprachiasmatic nucleus; Development (Swaab, D.F. (79) 249)

Signal transduction
Reactive astrocyte; Band formation; Bergmann glia; Transient expression; Purkinje cell; Stellate-basket cell (Chen, S. (80) 19)

Single channel
Forebrain; Sodium channel; Saxitoxin receptor; Saxitoxin affinity; mRNA (Villegas, R. (81) 26)

Single-stranded DNA
Arhinencephaly; Apoptosis; TRPM-2 gene (Keino, H. (78) 161)

Skeletal muscle
Botulinum A toxin; Motoneuron; Axon sprouting; Tissue culture (Bonner, P.H. (79) 39)

Slice
Long-term depression; Phospholipase A_2; Hippocampus; Plasticity; Learning; Development (Fitzpatrick, J.S. (78) 81)

Smooth muscle myosin
Oligodendrocyte; Astrocyte; Proteolipid protein; Vimentin; Fibronectin (Fujii, J.T. (78) 217)

Social isolation
Preweanling rat; Behavioral inhibition; Freezing; Ultrasonic vocalization; Conspecific threat; Adrenal steroid; Corticosterone; Adrenalectomy (Takahashi, L.K. (81) 121)

Sodium channel
Gap junction; Patch-clamp; Development; Tetrodotoxin; Telencephalon; Cortex (Mienville, J.-M. (77) 89)

Forebrain; Saxitoxin receptor; Saxitoxin affinity; Single channel; mRNA (Villegas, R. (81) 26)

Soleus
Development; Electromyography; Motor unit; Rat (Westerga, J. (80) 233)

Soma size
Gonadotropin releasing hormone; Preoptic area; Terminal nerve; Development (Francis, R.C. (78) 151)

Somatosensory cortex
Serotonin; Noradrenaline; Neurotoxin; Brain plasticity; Vibrissa (Osterheld-Haas, M.C. (77) 189)

Motor cortex; Neuronal death; Alz-50; Tau; Subplate (Miller, M.W. (81) 260)

Ochratoxin A; Microcephaly; Synapse-to-neuron ratio; Visual cortex; Cortical development (Miki, T. (82) 259)

Somatostatin
Biosynthesis; Development; Light-driven; Retina; Somatostatin-14; Somatostatin-28 (Dowton, M. (78) 65)

Hybridization histochemistry; Ontogeny (Burgunder, J.-M. (78) 109)

Calcium; Calcium current; Fura-2; $[Ca^{2+}]_i$; Hypothalamus; Rat (Desarménien, M.G. (79) 85)

Olfactory–forebrain region; Development; Immunohistochemistry; LHRH neuron; Cell migration; Chick embryo (Murakami, S. (82) 277)

Somatostatin-14
Biosynthesis; Development; Light-driven; Retina; Somatostatin; Somatostatin-28 (Dowton, M. (78) 65)

Somatostatin-28
Biosynthesis; Development; Light-driven; Retina; Somatostatin; Somatostatin-14 (Dowton, M. (78) 65)

Somatotopy
2-Deoxyglucose autoradiography; Cytochrome oxidase; Mouse somatosensory system; Whisker stimulation; Barrel cortex; Development of brain function (Melzer, P. (77) 227)

Spatial learning / memory
Acetylcholine; Brain development; AF64A; Hemicholinium-3; Cholinotoxin (Brake, W.G. (83) 289)

Spherical cell
Cochlear nucleus; Guinea pig; Deafferentation (Dodson, H.C. (80) 261)

Spinal cord
Neurogenesis; Spinothalamic tract; Spinocerebellar tract; Development; Retrograde tracing (Beal, J.A. (78) 49)

Retina; Sensory neuron development; Neuronal specificity; Axon outgrowth; Membrane protein (Halfter, W. (78) 87)

Chick embryo; Cholinergic; Norepinephrine; Serotonin; Dopamine; Modulatory influence (Thiriet, G. (78) 102)

Tadpole; Motoneuron; Neurogenesis; Survival (Clorfene, J.B. (79) 93)

Corticospinal tract; Target finding; Collateral; Pathway formation; Horseradish peroxidase; DiI (Joosten, E.A.J. (79) 122)

Spinal cord dorsal horn
Intracellular free calcium; NMDA receptor; Substantia gelatinosa; Postnatal development; Capsaicin; Fine primary afferent fiber (Hori, Y. (80) 141)

Spinal motoneuron
Postnatal development; Cell body size; Oxidative enzyme activity; Tibialis anterior muscle; Fluorescent neuronal tracer; Histochemistry; Rat (Ishihara, A. (83) 28)

Spinal root
P0 protein mRNA; Sciatic nerve; Development; In situ hybridization (Baron, P. (83) 285)

Spine
Basal forebrain; Medial septum; Synaptic development; Retrograde tracing; Neuronal differentiation (Linke, R. (83) 67)

Spinocerebellar
Cerebellum; NMDA; 2-Aminophosphovalerate; Muscimol; Map formation (Tolbert, D.L. (80) 268)

Spinocerebellar tract
Neurogenesis; Spinothalamic tract; Development; Spinal cord; Retrograde tracing (Beal, J.A. (78) 49)

Spinothalamic tract
Neurogenesis; Spinocerebellar tract; Development; Spinal cord; Retrograde tracing (Beal, J.A. (78) 49)

Sprouting
Cerebellum; Development; Picrotoxin; Bicuculline; Inhibitory synapse; Circuit reorganization (Seil, F.J. (77) 123)

Stellate-basket cell
Reactive astrocyte; Band formation; Bergmann glia; Transient expression; Purkinje cell; Signal transduction (Chen, S. (80) 19)

Stem cell
Retina; Ontogenesis; Morphometry; Column; Radial glia (Reichenbach, A. (79) 72)

Stereotypy
Gonadal hormone; Castration; Neonatal lesion; Hippocampus; Ibotenic acid; Amphetamine; Apomorphine; Dopamine (Lipska, B.K. (78) 253)

Steroid receptor
Glucocorticoid; Gene expression; Neural ontogeny; Adrenal (Bohn, M.C. (77) 157)

Stress
Oxytocin; Receptor; Development; Ontogeny; Hippocampus; Maternal separation (Noonan, L.R. (80) 115)

Striate cortex
γ-Aminobutyric acidergic neuron; Parvalbumin; Calbindin; Extrastriate cortex (Hogan, D. (77) 1)

Striatum
Dopamine; Transporter; Cocaine; Photoaffinity; Development; Glycosylation (Patel, A.P. (83) 53)

Development; Bromodeoxyuridine; Patch matrix; Birthdating; Neuronal migration (Song, D.D. (83) 233)

Enkephalin; Substance P; Neuropeptide; Development; Extended amygdala (Song, D.D. (83) 247)

Subcommissural organ
Hydrocephalus; Human fetal brain (Castañeyra-Perdomo, A. (79) 316)

Subfornical organ
Peking duck; Anteroventral third ventricular region; AV3V region; Choroid plexus; Paraventricular nucleus; Limbic system; ANGII; Angiotensin II; Angiotensin receptor (Müller, A.R. (78) 10)

Subplate
Somatosensory cortex; Motor cortex; Neuronal death; Alz-50; Tau (Miller, M.W. (81) 260)

Substance P
Cerebral cortex; Neurokinin B; Development; Gene expression; Rat (Zhang, L. (77) 23)

Human retina; Development; Immunoreactivity; Tyrosine hydroxylase; Neuropeptide Y; Enkephalin; Amacrine cell (Jotwani, G. (77) 285)

Brain injury; Dopamine; Dynorphin A; Hypoxia; Ischemia; Neuropeptide Y (Johnson, M. (83) 109)

Enkephalin; Neuropeptide; Development; Striatum; Extended amygdala (Song, D.D. (83) 247)

Substantia gelatinosa
Intracellular free calcium; NMDA receptor; Spinal cord dorsal horn; Postnatal development; Capsaicin; Fine primary afferent fiber (Hori, Y. (80) 141)

Substantia nigra
GABA receptor; Seizure; GABA; Rat; Development (Velíšková, J. (79) 297)

δ Subtype
δ Opioid receptor; Weaning; Ontogeny; Naltriben; Expression (Kitchen, I. (78) 147)

Sulpiride
Dopamine; Development/ontogeny; Microdialysis; Quinpirole; Autoreceptor; Potassium; Dopamine D_2 receptor (Andersen, S.L. (78) 123)

Superior colliculus
Nitric oxide; Plasticity; Dendrite; Development; NADPH-diaphorase (Vercelli, A.E. (83) 85)

Suprachiasmatic nucleus
Magnocellular; Parvicellular; Arginine-vasopressin immunoreactivity; Autoradiography; Arginine-vasopressin projection (Delville, Y. (81) 230)

Supraoptic nucleus
Tyrosine hydroxylase; Human hypothalamus; Paraventricular nucleus; Oxytocin; Vasopressin; Perinatal hypoxia; Fetal stress (Panayotacopoulou, M.T. (83) 59)

Survival
Tadpole; Spinal cord; Motoneuron; Neurogenesis (Clorfene, J.B. (79) 93)

Neurotransmitter; Neural crest; Differentiation; Immunohistochemistry (Matsumoto, S.G. (83) 1)

Sweetness sensitivity
Taste development; Anterior tongue; Papillae number; (Human) (Stein, N. (82) 286)

Sympathetic ganglia
Neurotrophin receptor (Dixon, J.E. (77) 177)

Sympathetic nerve
Castanospermine; α-Glucosidase inhibition; Neurite growth; Inhibition; Regeneration (Abotomey, C. (79) 101)

Synapse
Mouse; Adrenal; Medulla; Hippocampus; Morphometry; PNMT; Choline acetyltransferase; Acetylcholinesterase; Neuron-specific enolase; Immunocytochemistry (Jousselin-Hosaja, M. (79) 321)

Mossy fiber; Development; Electron microscopy; Roller tube (Robain, O. (80) 244)

Chick; Hyperstriatum ventrale; Intermediate part of the hyperstriatum ventrale; Medial part of the hyperstriatum ventrale; Visual experience; Plasticity (Bradley, P.M. (80) 295)

Synapse elimination
Neuromuscular development; Acetylcholinesterase; Non-specific cholinesterase; Endplate development; Neurotrophic influence (Feng, Y. (79) 151)

Synapse-to-neuron ratio
Ochratoxin A; Microcephaly; Somatosensory cortex; Visual cortex; Cortical development (Miki, T. (82) 259)

Synapsin I
Synaptogenesis; Central neuron; Glutamatergic synapse; GABAergic synapse; Miniature synaptic current; Tetrodotoxin (Gottmann, K. (81) 77)

Synaptic development
Basal forebrain; Medial septum; Spine; Retrograde tracing; Neuronal differentiation (Linke, R. (83) 67)

Synaptic plasticity
Protein kinase M; Zeta; Phosphorylation; Long-term potentiation (Jiang, X. (78) 291)

Synaptic stabilization
Amacrine cell; Propylbenzilylcholine mustard; Quinuclidinylbenzilate; Visual system (Hutchins, J.B. (82) 45)

Synaptogenesis
Mossy fiber; Dentate gyrus; Hilus; Basket cell; Hippocampus (Ribak, C.E. (79) 47)

Visual system; Plasticity; Development; Immunohistochemistry; Optic nerve (Kapfhammer, J.P. (80) 251)

Central neuron; Glutamatergic synapse; GABAergic synapse; Synapsin I; Miniature synaptic current; Tetrodotoxin (Gottmann, K. (81) 77)

Synaptophysin
Retinal transplantation; Human retina; Cell marker; Neuron-specific enolase; S-Antigen; Rhodopsin; α-Transducin; Vimentin; Cellular retinaldehyde-binding protein; Glial fibrillary acidic protein (Seiler, M.J. (80) 81)

Synaptosomal uptake
Serotonin; Neonate; Parachloroamphetamine; Hippocampal formation; HPLC (Haring, J.H. (83) 142)

Synaptosome
Inhibition; Cocaine; Fenfluramine; 3,4-Methylenedioxymethamphetamine; Transporter (Kramer, K. (78) 142)

Synenkephalin
Enkephalin; Processing; Brain; Development (Rodriguez Vida, M.I. (77) 151)

T

Tadpole
Spinal cord; Motoneuron; Neurogenesis; Survival (Clorfene, J.B. (79) 93)

Target deprivation
Excitotoxicity; Motoneuron; Axotomy (Greensmith, L. (81) 162)

Target finding
Corticospinal tract; Collateral; Pathway formation; Horseradish peroxidase; DiI; Spinal cord (Joosten, E.A.J. (79) 122)

Target innervation
Guidance; Neural cell adhesion molecule; Corticospinal tract; Rat; Immunocytochemistry (Joosten, E.A.J. (78) 226)

Target recognition
Cat; Geniculocortical projection; Growth factor; Mouse; Organotypic culture (Lotto, R.B. (81) 17)

Taste development
Anterior tongue; Sweetness sensitivity; Papillae number; (Human) (Stein, N. (82) 286)

Tau
Gene expression; Tubulin mRNA; MAP1B; MAP1A; β-Tubulin (Oblinger, M.M. (77) 45)

Somatosensory cortex; Motor cortex; Neuronal death; Alz-50; Subplate (Miller, M.W. (81) 260)

Taurine
Puberty; Hypothalamus; Amino acid neurotransmitter; Aspartate; Glutamate; Homocysteic acid; Glycine; GABA (Goroll, D. (77) 183)

Phosphocreatine; Maturation; Diffusion; Nuclear magnetic resonance; *N*-Acetylaspartate (Nakada, T. (80) 121)

TBPS-binding
$GABA_A$ receptor; Ontogenesis; β-Carboline; Benzodiazepine; Bicuculline; Cerebral cortex of rat (Giorgi, O. (80) 73)

Tegmentum mesencephali
Dopamine; Electrophysiology; Nucleus accumbens; Ventral tegmental area; Mesoaccumbens; Ontogeny (Wang, L. (79) 19)

Telencephalon
Gap junction; Sodium channel; Patch-clamp; Development; Tetrodotoxin; Cortex (Mienville, J.-M. (77) 89)

Terminal differentiation
Histone H1°; Transgene; Transcriptional activation; Brain; Neuron (Ponte, I. (80) 35)

Terminal nerve
Gonadotropin releasing hormone; Preoptic area; Soma size; Development (Francis, R.C. (78) 151)

Testosterone
Androgen receptor; Ferret; Hypothalamus; Immunocytochemistry; Puberty; Reproductive behavior (Kashon, M.L. (78) 237)

Lateral septum; Castration; Vasopressin (Wang, Z. (79) 147)

Aromatase; Estradiol; Hypothalamus; Preoptic area; Amygdala; Cortex; Ontogeny; Aggression (Compaan, J.C. (82) 185)

Tetanus toxin C
Fibroblast growth factor; Neural crest cell; Neurofilament; Neuronal differentiation; Peripherin (Bannerman, P.G. (83) 146)

Tetraethylammonium
Acute cell dissociation; Amphotericin B; Hippocampus; Nystatin; Potassium current (Baraban, S.C. (81) 309)

Tetrodotoxin
Gap junction; Sodium channel; Patch-clamp; Development; Telencephalon; Cortex (Mienville, J.-M. (77) 89)

Barrel; Neuronal activity; Trigeminal system; DiI; Serotonin (Chiaia, N.L. (79) 301)

Synaptogenesis; Central neuron; Glutamatergic synapse; GABAergic synapse; Synapsin I; Miniature synaptic current (Gottmann, K. (81) 77)

Thalamus
Adenosine A_1 receptor; Caffeine; Autoradiography; Cerebellum; Hippocampus; Ontogeny; Purinergic receptor (Etzel, B.A. (82) 223)

Receptor; Glutamate; Non-NMDA; Ontogenesis; Electron microscopy (Spreafico, R. (82) 231)

Thymidine autoradiography
Primary olfactory cortex; Golgi method; Development (Valverde, F. (80) 96)

Thymosin β
Actin binding; Sensory neuron; Neural development; In situ hybridization; Immunohistochemistry; Amphibian (Yamamoto, M. (79) 177)

Thyroid and neural development
Olfactory receptor neuron; Basal cell; Olfactory neural development; Thyroid hormone; Developmental plasticity; Recovery from neural retardation; Compensatory neural growth; Neuronal proliferation and migration (Paternostro, M.A. (83) 151)

Thyroid hormone
G-protein; Methimazole; Neonate; Immunoblotting (Wong, C.C. (79) 136)

Neural cell adhesion molecule; Metamorphosis; *Pleurodeles waltl*; Retinoic acid; Paedomorphosis (Becker, C.G. (79) 140)

Quantitative electron microscopy; Loyez stain; DiI tracing (Guadaño Ferraz, A. (81) 293)

Olfactory receptor neuron; Basal cell; Olfactory neural development; Thyroid and neural development; Developmental plasticity; Recovery from neural retardation; Compensatory neural growth; Neuronal proliferation and migration (Paternostro, M.A. (83) 151)

Tibialis anterior muscle
Postnatal development; Spinal motoneuron; Cell body size; Oxidative enzyme activity; Fluorescent neuronal tracer; Histochemistry; Rat (Ishihara, A. (83) 28)

Tissue culture
Botulinum A toxin; Motoneuron; Axon sprouting; Skeletal muscle (Bonner, P.H. (79) 39)

Growth factor; Retina; Glial cell; Müller cell; Proliferation (Scherer, J. (80) 209)

Tongue
Insulin-like growth factor; Muscle-derived neurotrophic factor; Facial nucleus; Hypoglossal nucleus; Cranial motoneuron; Sensory brainstem structure; Lumbar muscle; Trophic effect (Eustache, I. (81) 284)

Transcriptional activation
Histone H1°; Transgene; Brain; Neuron; Terminal differentiation (Ponte, I. (80) 35)

α-Transducin
Retinal transplantation; Human retina; Cell marker; Neuron-specific enolase; Synaptophysin; S-Antigen; Rhodopsin; Vimentin; Cellular retinaldehyde-binding protein; Glial fibrillary acidic protein (Seiler, M.J. (80) 81)

Transgene
Histone H1°; Transcriptional activation; Brain; Neuron; Terminal differentiation (Ponte, I. (80) 35)

Transgenic mouse
Insulin-like growth factor; Insulin-like growth factor binding protein-1; Growth retardation (D'Ercole, A.J. (82) 213)

Transient expression
Reactive astrocyte; Band formation; Bergmann glia; Purkinje cell; Stellate-basket cell; Signal transduction (Chen, S. (80) 19)

Estrogen receptor; Facial nucleus; In situ hybridization histochemistry; Immunohistochemistry; Newborn rat; Down-regulation (Orikasa, C. (82) 9)

Transient projection
Corticospinal tract; Postnatal development; Cervical spinal cord; Rat (Curfs, M.H.J.M. (78) 182)

Transplantation
Brain-derived neurotrophic factor; Outgrowth; Retina; Tropic (Panni, M.K. (81) 325)

Transporter
Synaptosome; Inhibition; Cocaine; Fenfluramine; 3,4-Methylenedioxymethamphetamine (Kramer, K. (78) 142)

Dopamine; Cocaine; Photoaffinity; Development; Glycosylation; Striatum (Patel, A.P. (83) 53)

Trembler
Central nervous system; Peripheral nervous system; Myelin; Ceramide galactosyltransferase; Phosphatidylcholine (Garbay, B. (83) 119)

Trigeminal ganglion
Nerve growth factor; Dental pulp; Dental innervation; Mental nerve; Unmyelinated fiber; Myelinated fiber (Naftel, J.P. (80) 54)

Trigeminal system
Barrel; Neuronal activity; Tetrodotoxin; DiI; Serotonin (Chiaia, N.L. (79) 301)

Tritiated thymidine
Primate; Vasopressin; Oxytocin (Van Eerdenburg, F.J.C.M. (79) 290)

Trophic effect
Neuronal immortalization; Controllable oncogene; APUD cell; Serotonin; Retinoic acid (Stringer, B.M.J. (79) 267)

Insulin-like growth factor; Muscle-derived neurotrophic factor; Facial nucleus; Hypoglossal nucleus; Cranial motoneuron; Sensory brainstem structure; Lumbar muscle; Tongue (Eustache, I. (81) 284)

Trophic factor
Low-affinity NGF receptor; $p75^{LNGFR}$; Recovery of function; Cholinergic cell; Regeneration (Van Eden, C.G. (82) 167)

Tropic
Brain-derived neurotrophic factor; Outgrowth; Retina; Transplantation (Panni, M.K. (81) 325)

Tropomodulin
Tropomyosin; Actin filament; Neural development (Sussman, M.A. (80) 45)

Tropomyosin
Tropomodulin; Actin filament; Neural development (Sussman, M.A. (80) 45)

TRPM-2 gene
Arhinencephaly; Apoptosis; Single-stranded DNA (Keino, H. (78) 161)

β-Tubulin
Gene expression; Tubulin mRNA; Tau; MAP1B; MAP1A (Oblinger, M.M. (77) 45)

Tubulin mRNA
Gene expression; Tau; MAP1B; MAP1A; β-Tubulin (Oblinger, M.M. (77) 45)

TuJ1
Neuron-specific tubulin; Olfactory marker protein; Olfactory sensory neuron; Olfactory epithelium; Immunocytochemistry (Lee, V.M. (83) 209)

Turtle
GABA; Embryonic development; Retina; Neurotransmitter; Immunohistochemistry (Versaux-Botteri, C. (83) 125)

Tyrosine hydroxylase
Human retina; Development; Immunoreactivity; Substance P; Neuropeptide Y; Enkephalin; Amacrine cell (Jotwani, G. (77) 285)

Marihuana; Cannabinoid; Mesencephalic catecholaminergic neuron; Nigrostriatal dopaminergic neuron; Tyrosine hydroxylase gene (Bonnin, A. (81) 147)

Cell culture; Brain-derived neurotrophic factor; Dopamine; Cerebral cortex; Rat (Zhou, J. (81) 318)

Human hypothalamus; Paraventricular nucleus; Supraoptic nucleus; Oxytocin; Vasopressin; Perinatal hypoxia; Fetal stress (Panayotacopoulou, M.T. (83) 59)

Tyrosine hydroxylase gene
Marihuana; Cannabinoid; Mesencephalic catecholaminergic neuron; Nigrostriatal dopaminergic neuron; Tyrosine hydroxylase (Bonnin, A. (81) 147)

U

Ubiquitin
Chick; Embryo; Neuronal; Differentiation; Neural crest (Smith-Thomas, L.C. (81) 171)

Ultrasonic vocalization
Preweanling rat; Behavioral inhibition; Freezing; Conspecific threat; Social isolation; Adrenal steroid; Corticosterone; Adrenalectomy (Takahashi, L.K. (81) 121)

Ultrastructure
Blood–brain barrier; Development; Morphometry; Vascular pore (Stewart, P.A. (78) 25)

Cell death; Apoptosis; Olfactory system; Rat (Pellier, V. (79) 307)

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V

Vascular pore
Blood–brain barrier; Ultrastructure; Development; Morphometry (Stewart, P.A. (78) 25)

Vasoactive intestinal polypeptide
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Vasopressin
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Vasoactive intestinal polypeptide; Human suprachiasmatic nucleus; Development; Sexual dimorphy (Swaab, D.F. (79) 249)

Primate; Oxytocin; Tritiated thymidine (Van Eerdenburg, F.J.C.M. (79) 290)

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***Vicia villosa* agglutinin**
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Vasopressin; Corticotropin-releasing factor; RU28362; Aldosterone (Albeck, D.S. (26) 129)

Growth factor; Neuroendocrinology; Glucocorticoid hormone (Kononen, J. (27) 347)

Adrenal gland
c-*fos*; c-*jun*; Immobilization; Hypothalamic paraventricuar nucleus; Pituitary; Rat (Senba, E. (24) 283)

Dopamine β-hydroxylase; Neural regulation; In vivo (Wong, D.L. (25) 57)

Adrenal medulla
Tyrosine hydroxylase; Gene regulation; Depolarization (Stachowiak, M.K. (22) 309)

α_2 Adrenoceptor
Subtype; Northern blot; In situ hybridization; Presynaptic receptor; Sympathetic (Vidovic, M. (22) 49)

α_2-Adrenoreceptor
Tricyclic antidepressant; Desipramine; Clonidine; Norepinephrine transporter; Yohimbine; Locus ceruleus (Shores, M.M. (27) 337)

Adult brain
Vasoactive intestinal polypeptide; Hypothyroidism; In situ hybridization; Grain counting (Giardino, L. (27) 87)

Affinity-purified antibody
G_i protein; α Subunit; cDNA library; Molecular cloning; Immunohistochemistry; Cochlea; Inner hair cell; Outer hair cell (Tachibana, M. (21) 355)

Affinity state
DOI; LSD; Compartment; Serotonin 5-HT_2 receptor; Autoradiography (Waeber, C. (24) 199)

Aging
In situ hybridization; mRNA; Choline acetyltransferase; Alzheimer's disease; Neurodegeneration (Sugaya, K. (23) 111)

Hexokinase; Gene expression; Rat brain; In situ hybridization (Cimino, M. (25) 1)

Glucocorticoid receptor; Mineralocorticoid receptor; Gene expression; Hippocampus; In situ hybridization (Yau, J.L.W. (27) 174)

Alcohol
Ethanol; Alcoholism; Calmodulin; Membrane fluidity; Synaptic plasma membrane (Iqbal, Z. (27) 333)

Alcoholism
Ethanol; Alcohol; Calmodulin; Membrane fluidity; Synaptic plasma membrane (Iqbal, Z. (27) 333)

Aldosterone
Vasopressin; Corticotropin-releasing factor; Adrenalectomy; RU28362 (Albeck, D.S. (26) 129)

Alternative splicing
Cytoskeleton; Microtubule; MAP2 (Kindler, S. (26) 218)

Serotonin; Receptor; Ligand-gated ion channel; Gene structure; Mouse (Werner, P. (26) 233)

Tau; Carboxyl terminus; Molecular diversity; Retained clone; Spliced clone (Sawa, A. (27) 111)

Alternative splicing desensitization
Somatostatin receptor 2; SSTR2; Isoform; C-terminus; Distribution (Vanetti, M. (27) 45)

Alzheimer's disease
Glial S100b; Protein F1/GAP43; Protein kinase C; Synaptic plasticity; Down's syndrome (Sheu, F.-S. (21) 62)

AMPA receptor; Hippocampus; Cortex; Cerebellum; Human brain; Epilepsy; In situ hybridization (García-Ladona, F.J. (21) 75)

Amyloid; AP-1; Brain gene regulation; Promotor structure; SP1; TFIID (Lukiw, W.J. (22) 121)

In situ hybridization; mRNA; Choline acetyltransferase; Aging; Neurodegeneration (Sugaya, K. (23) 111)

Neurotrophin; mRNA expression; Perforant path (Springer, J.E. (23) 135)

Human brain; Temporal cortex; Primary motor cortex; Northern blot; Oxidative metabolism; Synaptic loss (Chandrasekaran, K. (24) 336)

Anion transport protein; Brain; Neuron; Neurodegeneration (Havenga, M.J.E. (25) 97)

Amyloid precursor protein; Tetracycline-responsive promoter; Neuroblastoma; SK-N-MC; Cytotoxicity (Sopher, B.L. (26) 207)

β/A4 Amyloid protein precursor; Sialic acid; Neuraminidase; Developmental change; Cerebrospinal fluid; Western blot analysis (Sodeyama, N. (27) 320)

Amine transporter
MPP^+ toxicity; hSVAT; MPTP (Liu, L. (25) 90)

cAMP
GABA; Transport; mRNA; Neuron; Glial cell (Gomeza, J. (21) 150)

Melatonin; RNA synthesis; Retinoblastoma; Camptothecin; Actinomycin D; *N*-Acetyltransferase (Janavs, J.L. (23) 47)

Neuropeptide Y; PC12 cell; Nerve growth factor; Protein kinase C; Protein kinase inhibitor (Balbi, D. (23) 310)

ATF1; Calcium; Cell body response; CREB1; CREM; Fos protein; Gene transcription; Immediate early gene; Jun protein; Regeneration (Herdegen, T. (26) 259)

Nerve growth factor; Lithium; Dexamethasone; Gene expression; Neuropeptide; Neuromedin N (Bullock, B.P. (27) 232)

κ-Opioid receptor; Adenylyl cyclase; Phospholipase C; *Xenopus* oocyte; Ca^{2+}; U50488H (Kaneko, S. (27) 258)

AMPA
RNA editing; Glutamate receptor; Rat; Human; Brain; Polymerase chain reaction (Cha, J.-H.J. (22) 323)

AMPA receptor
Hippocampus; Cortex; Cerebellum; Human brain; Alzheimer's disease; Epilepsy; In situ hybridization (García-Ladona, F.J. (21) 75)

Zinc; GluR1; GluR3; *Xenopus* oocyte expression system (Dreixler, J.C. (22) 144)

cAMP-dependent phosphorylation
Nicotinic acetylcholine receptor; *Torpedo*; Muscle; *Xenopus* oocyte; Desensitization; Site-directed mutagenesis; Gentamicin (Nishizaki, T. (21) 99)

Acetylcholine receptor; *Xenopus* oocyte; Desensitization; Ca^{2+} permeability; Site-directed mutagenesis (Nishizaki, T. (24) 341)

Amphetamine
Calmodulin; Myosin light chain kinase; Biotinylated calmodulin; Translocation; Basal ganglia; Supersensitivity; Antipsychotic drug (Gnegy, M.E. (27) 195)

cAMP response element
Single-stranded DNA; DNA binding protein; Mouse cerebellum; Morphine; Chronic treatment (Osugi, T. (21) 256)

Amygdala
Kindling; Thyrotropin-releasing hormone; Enkephalin; Neuropeptide Y; In situ hybridization; mRNA; Neuropeptide; Hippocampus; Entorhinal cortex; Pyriform cortex; Perirhinal cortex (Rosen, J.B. (27) 71)

Amygdaloid complex
Cholecystokinin mRNA; Morphine tolerance; In situ hybridization (Pu, S. (21) 183)

Amyloid
Alzheimer's disease; AP-1; Brain gene regulation; Promotor structure; SP1; TFIID (Lukiw, W.J. (22) 121)

Amyloid precursor gene
Prion protein gene; Cadherin; Synaptophysin; Retinoic acid (Ackerman, S.L. (25) 157)

Amyloid precursor protein
DNA methylation; Neurodegeneration; Gene regulation (Ledoux, S. (24) 140)

Alzheimer's disease; Tetracycline-responsive promoter; Neuroblastoma; SK-N-MC; Cytotoxicity (Sopher, B.L. (26) 207)

β/A4 Amyloid protein precursor
Alzheimer's disease; Sialic acid; Neuraminidase; Developmental change; Cerebrospinal fluid; Western blot analysis (Sodeyama, N. (27) 320)

Androgen
Proopiomelanocortin; β-Endorphin; Dihydrotestosterone; Estradiol; Hypothalamus (Matera, C. (27) 275)

Angiogenesis
In situ hybridization; Northern blot; Cerebellum (Mendis, D.B. (24) 11)

Anion transport protein
Alzheimer's disease; Brain; Neuron; Neurodegeneration (Havenga, M.J.E. (25) 97)

Anorexia
Hyperinnervation; Serotonergic stimulation; Mouse mutant; Dysfunctional behavior (Son, J.H. (25) 129)

Antibody
Human; Contactin; F3; F11; Cell adhesion; Glycosyl phosphatidylinositol; cDNA; mRNA expression (Reid, R.A. (21) 1)

GABA receptor; Benzodiazepine receptor; Rat brain; In situ hybridization; Ethanol; γ_2 Subunit (Miralles, C.P. (24) 129)

GABA transporter; Immunocytochemistry; Distribution; Ependyma; Arachnoid (Ikegaki, N. (26) 47)

Anti-NSP antibody
NSP expression in brain; Epitope mapping (Van de Velde, H.J.K. (23) 81)

Antipsychotic
Fos; Fos-related antigen; FosB; c-Jun; JunB; JunD; Krox24; Tardive dyskinesia; Drug screening (MacGibbon, G.A. (23) 21)

Antipsychotic drug
Calmodulin; Myosin light chain kinase; Biotinylated calmodulin; Translocation; Basal ganglia; Supersensitivity; Amphetamine (Gnegy, M.E. (27) 195)

Antisense oligonucleotide
Neuropeptide Y; Arcuate nucleus; Paraventricular nucleus; Feeding behavior (Akabayashi, A. (21) 55)

Antiserum
cDNA expression library; Cerebellum; Granule cell; In situ hybridization; Novel clone; Western blot (Kambouris, M. (25) 183)

Anxiolytic drug
Specific binding; Homophthalazine; 2,3-Benzodiazepine; Autoradiography; Basal ganglia (Horváth, E.J. (22) 211)

AP-1
Alzheimer's disease; Amyloid; Brain gene regulation; Promotor structure; SP1; TFIID (Lukiw, W.J. (22) 121)

Neurotensin; c-*fos*; Neuromedin; Neostriatum; Haloperidol (Merchant, K.M. (23) 270)

Immediate early gene; Glucocorticoid; Dexamethasone; Fos; Jun (Unlap, T. (24) 275)

Circadian rhythm; Immediate early gene; Immunohistochemistry; Light (Peters, R.V. (27) 243)

AP-1 binding site
Brain-derived neurotrophic factor; Nerve growth factor family; Multiple promoters; Gene regulation; Neuron-specific expression; Kainate-induced activation (Nakayama, M. (21) 206)

***Aplysia* sensory neuron**
Protein kinase C; Phorbol ester; Presynaptic facilitation; Behavioral sensitization; Behavioral dishabituation (Sossin, W.S. (24) 210)

Apolipoprotein E
Cerebellar cortex; Astrocyte; Cholesterol; Glial fibrillary acidic protein immunocytochemistry (Lafarga, M. (21) 115)

Arcuate nucleus
Neuropeptide Y; Antisense oligonucleotide; Paraventricular nucleus; Feeding behavior (Akabayashi, A. (21) 55)

Vasopressin; Oxytocin; Paraventricular nucleus; Supraoptic nucleus (Petrov, T. (22) 333)

Galanin; Corticosterone; Paraventricular nucleus; Dorsal raphe; mRNA (Akabayashi, A. (25) 305)

Aromatase
Estrogen synthetase; Neuron; Diencephalon; Reverse transcriptase-polymerase chain reaction technique; Culture (Abe-Dohmae, S. (24) 153)

Assembly signal
Torpedo acetylcholine receptor; *Xenopus* oocyte; Subunit assembly; Site-directed mutagenesis (Sumikawa, K. (25) 257)

Astrocyte
Apolipoprotein E; Cerebellar cortex; Cholesterol; Glial fibrillary acidic protein immunocytochemistry (Lafarga, M. (21) 115)

Sodium pump isoform; Immunoblotting; Immunocytochemistry; Granule cell; Rat brain; Monkey brain (Cameron, R. (21) 333)

Blood–brain barrier; Glucose transporter; Actin; RNA (Boado, R.J. (22) 259)

PC12 cell; Prion protein; Glial fibrillary acidic protein; Growth factor; Interleukin-6; mRNA; Mouse (Lazarini, F. (22) 268)

Nerve growth factor; 1,25-Dihydroxyvitamin D_3; Vitamin D receptor; Gene regulation; Cell culture (Neveu, I. (24) 70)

Microglia; Schwann cell; Neurodegenerative lesion; Neurotrophin; LNGFR; Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin 3 (Junier, M.P. (24) 247)

Glutamate dehydrogenase; Glutamate metabolism; Glutamine synthetase; Hippocampus; Serotonin; Neuron–glia interaction (Hardin, H. (26) 1)

Cytokine; Hippocampus; Dentate gyrus; Pia; Gene regulation; Acidic fibroblast growth factor; In situ hybridization (Rivera, S. (27) 12)

Astroglia
Ciliary neurotrophic factor; Immunochemistry; Glial fibrillary acidic protein (Henderson, J.T. (22) 151)

ATF1
Calcium; cAMP; Cell body response; CREB1; CREM; Fos protein; Gene transcription; Immediate early gene; Jun protein; Regeneration (Herdegen, T. (26) 259)

ATP-sensitive K-channel
ROMK1; Rat brain (Kenna, S. (24) 353)

Autocrine
Neurotrophin; Glia; Tyrosine kinase; Phosphorylation; Glycosylation (Zanellato, A. (23) 299)

Autoradiography
Specific binding; Homophthalazine; 2,3-Benzodiazepine; Basal ganglia; Anxiolytic drug (Horváth, E.J. (22) 211)

GluR1–4; NMDAR1; mGluR; Circadian rhythm; Biological clock (Gannon, R.L. (23) 338)

DOI; LSD; Affinity state; Compartment; Serotonin 5-HT_2 receptor (Waeber, C. (24) 199)

Autoreceptor
Gene expression; In situ hybridization histochemistry; Locus coeruleus; Noradrenaline (Scheinin, M. (21) 133)

Axonal transport
PNP 14; Phosphoneuroprotein; Brain-specific protein; Neuron-specific protein; Immunocytochemistry; In situ hybridization (Nakajo, S. (27) 81)

Axonal transport of mRNA
Tyrosine hydroxylase; Hypothalamo-neurohypophysial system (Skutella, T. (23) 179)

Axon regeneration
Somatomedin; Neurite; Paralysis; Neurotrophic factor (Glazner, G.W. (25) 265)

Axotomy
Retinal ganglion cell; Regeneration; Immediate early gene; Transcription factor; Peripheral nerve grafting (Robinson, G.A. (24) 43)

GAP-43; Rat brain; Immunocytochemistry; mRNA; Facial nucleus (Palacios, G. (24) 107)

RNA polymerase; Transcription; Peripheral nerve regeneration; Sensory ganglion (Wells, M.R. (27) 163)

B

B-50 / GAP-43
Transcription initiation site; Luciferase; Transient transfection; Promoter activity; PC12 cell; P19-EC cell (Eggen, B.J.L. (23) 221)

jun-B
Lithium; c-*fos*; c-*jun*; *jun-D*; Epilepsy; Cholinergic stimulation (Williams, M.B. (25) 80)

Basal ganglia
Dopamine receptor; Glutamate; Dopamine; Hippocampus; Nucleus accumbens (Brené, S. (21) 274)

Specific binding; Homophthalazine; 2,3-Benzodiazepine; Autoradiography; Anxiolytic drug (Horváth, E.J. (22) 211)

Glutamate decarboxylase; Parkinson's disease; Dopamine; MPTP; Monkey (Pedneault, S. (25) 351)

Brain-derived neurotrophic factor; Neurotrophic; Neuroprotective; Transcription regulation; Promoter (Bishop, J.F. (26) 225)

Calmodulin; Myosin light chain kinase; Biotinylated calmodulin; Translocation; Supersensitivity; Amphetamine; Antipsychotic drug (Gnegy, M.E. (27) 195)

Basic fibroblast growth factor
Ischemia; Fibroblast growth factor receptor; *flg*; Hippocampus; Gene expression (Endoh, M. (22) 76)

Cell proliferation; c-*fos*; Genistein; Protein kinase C; Oligodendrocyte progenitor (Radhakrishna, M. (24) 118)

Fibroblast growth factor receptor; Brain injury; Somatosensory cortex ablation model; Retrograde degeneration; Thalamus (Yuguchi, T. (25) 50)

Glucocorticoid; Hippocampus; GAP-43; BDNF; Neurotrophin-3; trkB; trkC (Chao, H.M. (26) 271)

Basic fibroblast growth factor mRNA
Acidic fibroblast growth factor; Nerve growth factor; *trk*A; Rat; RNase protection assay (Follesa, P. (22) 1)

Basic-helix-loop-helix motif
Olfactory tissue; Shotgun screening; Tissue specific gene; β-Tubulin; S-100; Calcium binding protein (Bettini, E. (23) 285)

BDNF
Glucocorticoid; Hippocampus; GAP-43; Neurotrophin-3; trkB; trkC; Basic fibroblast growth factor (Chao, H.M. (26) 271)

trk; p75LNGFR; Low-affinity nerve growth factor receptor; NT-3; Neurotrophin-3; Brain-derived nerve factor; Hypothyroidism (Alvarez-Dolado, M. (27) 249)

Behavioral dishabituation
Protein kinase C; *Aplysia* sensory neuron; Phorbol ester; Presynaptic facilitation; Behavioral sensitization (Sossin, W.S. (24) 210)

Behavioral sensitization
Protein kinase C; *Aplysia* sensory neuron; Phorbol ester; Presynaptic facilitation; Behavioral dishabituation (Sossin, W.S. (24) 210)

2,3-Benzodiazepine
Specific binding; Homophthalazine; Autoradiography; Basal ganglia; Anxiolytic drug (Horváth, E.J. (22) 211)

Benzodiazepine binding site, Type I
$GABA_A$ receptor complex; Zolpidem binding; Subunit specific antibody; Immunoprecipitation; Cortex; Hippocampus (Ruano, D. (25) 225)

Benzodiazepine receptor
Chemical kindling; FG 7142; β-Carboline; $GABA_A$ receptor; Glutamate receptor (Lewin, E. (22) 320)

GABA receptor; Antibody; Rat brain; In situ hybridization; Ethanol; γ_2 Subunit (Miralles, C.P. (24) 129)

$GABA_A$ receptor; Downregulation; Flunitrazepam; mRNA; Cerebellum (Calkin, P.A. (26) 18)

Binding assay
Neuropeptide Y; Peptide YY; Neuropeptide Y_1 receptor; Neuropeptide Y_2 receptor; Neurpeptide Y_3 receptor; Bioassay (Dumont, Y. (26) 320)

Bioassay
Neuropeptide Y; Peptide YY; Neuropeptide Y_1 receptor; Neuropeptide Y_2 receptor; Neurpeptide Y_3 receptor; Binding assay (Dumont, Y. (26) 320)

Biochemistry
Subcommissural organ; Secretory glycoprotein; Immunocytochemistry; Dogfish; *Scyliorhinus canicula* (Grondona, J.M. (26) 299)

Biological clock
GluR1–4; NMDAR1; mGluR; Circadian rhythm; Autoradiography (Gannon, R.L. (23) 338)

Suprachiasmatic nucleus; Circadian rhythm; Serotonin; Immediate early gene; Brain slice; In situ hybridization (Prosser, R.A. (25) 151)

Biotinylated calmodulin
Calmodulin; Myosin light chain kinase; Translocation; Basal ganglia; Supersensitivity; Amphetamine; Antipsychotic drug (Gnegy, M.E. (27) 195)

BK channel
Ion channel; Maxi-K channel; Cloning; *hSlo* (Dworetzky, S.I. (27) 189)

Blood–brain barrier
Endothelium; Ependyma (Petrov, T. (21) 235)

Glucose transporter; Actin; RNA; Astrocyte (Boado, R.J. (22) 259)

Blood–nerve barrier; Permeability coefficient–surface area product; Residual brain/endoneurial plasma volume; Nerve growth factor; Immunoglobulin (Poduslo, J.F. (23) 157)

Blood–nerve barrier
Blood–brain barrier; Permeability coefficient–surface area product; Residual brain/endoneurial plasma volume; Nerve growth factor; Immunoglobulin (Poduslo, J.F. (23) 157)

Blood pressure
Hypertension; Dynorphin; Dentate gyrus; In situ hybridization (Wang, J.Q. (23) 345)

mRNA; Brain; Stress; Opioid; In situ hybridization (Boone Jr., J.B. (27) 290)

Blood pressure regulation
Proenkephalin; Brain; In situ hybridization; Met-enkephalin; mRNA (Boone Jr., J.B. (24) 320)

Brain
Insulin-like growth factor II; Insulin-like growth factor-binding protein-2; Choroid plexus epithelial cell; Sheep; Gene expression; Secretion; Cerebrospinal fluid (Holm, N.R. (21) 67)

Transforming growth factor α; Epidermal growth factor; Cerebral cortex; Hemidecortication; Neostriatum; Ontogeny; Plasticity; In situ hybridization (Kornblum, H.I. (21) 107)

Fibroblast growth factor receptor; Fibroblast growth factor receptor-4; Rat; Medial habenular nucleus; Neuron; mRNA; Gene expression (Itoh, N. (21) 344)

Protein phosphatase 2A; mRNA; Rat; In situ hybridization (Abe, H. (22) 139)

RNA editing; Glutamate receptor; Rat; Human; AMPA; Polymerase chain reaction (Cha, J.-H.J. (22) 323)

Sodium channel; Sodium channel type I; Sodium channel type II; Sodium channel type III; Facial nucleus; Motor neuron; Nerve transection; In situ hybridization (Iwahashi, Y. (22) 341)

Calpain; Calpastatin; mRNA; In situ hybridization (Goto, K. (23) 40)

Proenkephalin; In situ hybridization; Blood pressure regulation; Met-enkephalin; mRNA (Boone Jr., J.B. (24) 320)

Preprocholecystokinin; In situ hybridization; Gene expression; Dopamine; MDMA (Wotherspoon, G. (25) 34)

Anion transport protein; Alzheimer's disease; Neuron; Neurodegeneration (Havenga, M.J.E. (25) 97)

14-3-3 Protein; ζ Subtype; θ Subtype; cDNA cloning; In situ hybridization; Development; Rat (Watanabe, M. (25) 113)

Hypothalamus; mRNA; In situ hybridization; Transcription factor; Zinc finger; Leucine zipper (Honkaniemi, J. (25) 234)

Glucose transporter; Ischemia; Riboprobe; Gerbil; In situ hybridization (Gerhart, D.Z. (25) 313)

Liposome; Hemagglutinating virus of Japan; Gene transfer; Central nervous system; Post-mitotic neuron (Kato, K. (25) 359)

Calcium; Calmodulin; Phosphodiesterase; Rat; In situ hybridization (Furuyama, T. (26) 331)

Interleukin-1 receptor; Neuron; Quantitative autoradiography; RT-PCR; Immunodetection (Parnet, P. (27) 63)

Inducible hsp70 mRNA; Inducible hsp70; Necrosis; Convulsant agent (Planas, A.M. (27) 127)

Interleukin-1; Interleukin-6; Tumor necrosis factor; Lipopolysaccharide; Pituitary; Semiquantitative RT-PCR; Sickness behavior (Layé, S. (27) 157)

mRNA; Blood pressure; Stress; Opioid; In situ hybridization (Boone Jr., J.B. (27) 290)

Brain damage
Programmed cell death; Fos; Jun; Krox; Brain-derived neurotrophic factor (Dragunow, M. (25) 19)

Brain-derived nerve factor
trk; p75LNGFR; Low-affinity nerve growth factor receptor; NT-3; Neurotrophin-3; BDNF; Hypothyroidism (Alvarez-Dolado, M. (27) 249)

Brain-derived neurotrophic factor
Calcitonin gene-related peptide; Diabetes mellitus; Diabetic neuropathy; Nerve growth factor; Substance P (Diemel, L.T. (21) 171)

Nerve growth factor family; Multiple promoters; Gene regulation; Neuron-specific expression; Kainate-induced activation; AP-1 binding site (Nakayama, M. (21) 206)

Microglia; Astrocyte; Schwann cell; Neurodegenerative lesion; Neurotrophin; LNGFR; Nerve growth factor; Neurotrophin 3 (Junier, M.P. (24) 247)

Brain damage; Programmed cell death; Fos; Jun; Krox (Dragunow, M. (25) 19)

Neurotrophic; Neuroprotective; Transcription regulation; Promoter; Basal ganglia (Bishop, J.F. (26) 225)

Brain development
Helix-loop-helix; Gene expression; Plasticity; Mouse development (Soosaar, A. (25) 176)

otx homeoprotein; Zebrafish; Embryogenesis; Gastrulation; Diencephalon; Midbrain (Mori, H. (27) 221)

Brain gene regulation
Alzheimer's disease; Amyloid; AP-1; Promotor structure; SP1; TFIID (Lukiw, W.J. (22) 121)

Brain injury
Basic fibroblast growth factor; Fibroblast growth factor receptor; Somatosensory cortex ablation model; Retrograde degeneration; Thalamus (Yuguchi, T. (25) 50)

sgk; Oligodendrocyte; Differential display; Transcriptional regulation (Imaizumi, K. (26) 189)

Brain ischemia
Interleukin-1β; Middle cerebral artery occlusion; mRNA; In situ hybridization (Buttini, M. (23) 126)

Brain region
G protein expression; In situ hybridization histochemistry; Chronic naltrexone; Chronic selective agonist (Rubino, T. (23) 333)

Brain slice
Suprachiasmatic nucleus; Circadian rhythm; Biological clock; Serotonin; Immediate early gene; In situ hybridization (Prosser, R.A. (25) 151)

Brain-specific protein
PNP 14; Phosphoneuroprotein; Neuron-specific protein; Immunocytochemistry; In situ hybridization; Axonal transport (Nakajo, S. (27) 81)

Brainstem
Ribonuclease protection assay; Central nervous system; Hypothalamus; Hippocampal–amygdala complex; Frontal cerebral cortex; Development (Keiger, C.J. (27) 103)

Brainstem activation
NMDA receptor gene expression; Cortical activation; Lactation; c-*fos* expression; Locus coeruleus; Dorsal raphe (Abbud, R. (25) 323)

C

Ca^{2+}
κ-Opioid receptor; Adenylyl cyclase; Phospholipase C; *Xenopus* oocyte; cAMP; U50488H (Kaneko, S. (27) 258)

Ca^{2+}-dependent Cl^- channel
Opioid receptor; *Xenopus* oocyte; mRNA; Naloxone; DPDPE (Kaneko, S. (22) 69)

[$^{45}Ca^{2+}$]influx
Glutamate receptor; NMDA receptor; MK-801 binding; Neuroblastoma × glioma hybrid cell; NG 108-15 cell (Ohkuma, S. (22) 166)

Ca^{2+} influx
NMDA receptor; $GABA_A$ receptor; Voltage-dependent Ca channel blocker; Cerebral cortical neuron (Ohkuma, S. (27) 145)

Ca^{2+} permeability
Acetylcholine receptor; *Xenopus* oocyte; Desensitization; cAMP-dependent phosphorylation; Site-directed mutagenesis (Nishizaki, T. (24) 341)

Cadherin
Prion protein gene; Amyloid precursor gene; Synaptophysin; Retinoic acid (Ackerman, S.L. (25) 157)

Calcitonin gene-related peptide
Brain-derived neurotrophic factor; Diabetes mellitus; Diabetic neuropathy; Nerve growth factor; Substance P (Diemel, L.T. (21) 171)

Activator protein-1; Immediate-early gene; Nitric oxide; Nociception; Substance P; Transcription (Herdegen, T. (22) 245)

Calcitonin gene-related peptide mRNA
In situ hybridization histochemistry; Neuronal plasticity; Vagus nerve; Glossopharyngeal nerve; Neuropeptide; Rat (Huang, F.-L. (22) 290)

Calcium
Excitotoxicity; Glutamate receptor; Calcium channel; Fura-2; Dopaminergic neuron; Primary culture (De Erausquin, G. (21) 303)

Adenylyl cyclase; Striatum; Dopamine; Acetylcholine; mRNA (Mons, N. (22) 236)

GAP-43; S-100β; Casein kinase II; Protein kinase C; Phosphorylation; Acylation; Neuromodulin (Lin, L.-H. (25) 292)

Skeletal muscle; Immediate early gene; Acetylcholine receptor; Intracellular calcium store; Synaptic transmission (Abu-Shakra, S.R. (26) 55)

ATF1; cAMP; Cell body response; CREB1; CREM; Fos protein; Gene transcription; Immediate early gene; Jun protein; Regeneration (Herdegen, T. (26) 259)

Calmodulin; Phosphodiesterase; Rat; Brain; In situ hybridization (Furuyama, T. (26) 331)

Calcium appetite
Calretinin mRNA; Rat brain; Substantia nigra; Ventral tegmental area; Lysate RNase protection assay; Tyrosine hydroxylase mRNA (Strauss, K.I. (25) 140)

Calcium binding protein
Stress protein; Seizure; Ischemia; Trauma; Gene expression (Lowenstein, D.H. (22) 299)

Opiate; Calcium ion; Cerebellum; Drug abuse (Tirumalai, P.S. (23) 144)

Olfactory tissue; Shotgun screening; Tissue specific gene; β-Tubulin; Basic-helix-loop-helix motif; S-100 (Bettini, E. (23) 285)

Calcium channel
Excitotoxicity; Glutamate receptor; Fura-2; Calcium; Dopaminergic neuron; Primary culture (De Erausquin, G. (21) 303)

Calcium ion
Opiate; Calcium binding protein; Cerebellum; Drug abuse (Tirumalai, P.S. (23) 144)

Calcium ionophore A23187
Striatal neuron; Adenylate cyclase; Dopamine; Protein kinase C; Phorbol myristate acetate (Schinelli, S. (21) 162)

Calmodulin
Adenylate cyclase; Adrenalectomy; In situ hybridization; Hippocampus; Cortex (Gannon, M.N. (22) 186)

Haloperidol; Neural cell adhesion molecule; GAP-43; Gene expression; Neonate; Rat (Castro, R. (26) 74)

Calcium; Phosphodiesterase; Rat; Brain; In situ hybridization (Furuyama, T. (26) 331)

Myosin light chain kinase; Biotinylated calmodulin; Translocation; Basal ganglia; Supersensitivity; Amphetamine; Antipsychotic drug (Gnegy, M.E. (27) 195)

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Calpastatin
Calpain; mRNA; Brain; In situ hybridization (Goto, K. (23) 40)

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Canary
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Capsaicin
Resiniferatoxin; Dorsal root ganglion; Nociception (Ninkina, N.N. (22) 39)

Vanilloid receptor; Human spinal cord; Human medulla oblongata; Resiniferatoxin binding; Capsazepine (Acs, G. (23) 185)

Capsazepine
Vanilloid receptor; Human spinal cord; Human medulla oblongata; Resiniferatoxin binding; Capsaicin (Acs, G. (23) 185)

Carbamazepine
$GABA_A$-benzodiazepine receptor complex; mRNA; Kindled seizure; Hippocampus; Receptor autoradiography; Contingent tolerance; In situ hybridization (Clark, M. (26) 309)

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Carboxyl terminus
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Carrier-mediated transport
L-Carnitine; GABA; Acetyl-L-carnitine; Energy-dependent; Na-dependent; Cultured cortical cell (Virmani, M.A. (25) 105)

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Catecholamine re-uptake blocker
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Catecholaminergic neuron
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Cation permeability
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Caudate-putamen
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Rat; In situ hybridization; Gene expression; Co-expression; Striatopallidal; Striatal interneuron (Augood, S.J. (22) 204)

Cell adhesion
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Cell biology
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Cell body response
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Cell culture
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Cell proliferation
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Cell-type specificity
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Liposome; Hemagglutinating virus of Japan; Gene transfer; Brain; Post-mitotic neuron (Kato, K. (25) 359)

Ribonuclease protection assay; Hypothalamus; Hippocampal–amygdala complex; Frontal cerebral cortex; Brainstem; Development (Keiger, C.J. (27) 103)

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Cerebellin
Cerebellum; Gene structure; Neurological mutant; Chromosomal location (Kavety, B. (27) 152)

Cerebellum
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Northern blot analysis; In situ hybridization; Nervous system; Cerebral cortex; Hippocampus; Choroid plexus; Caudate-putamen; Development (Zagon, I.S. (21) 85)

Glutamate; NMDA; MK-801; c-*fos*; c-*jun*; Oncogene; Neuroprotection; Excitoprotection; Neurotoxicity; Excitotoxicity; Neuron (Weller, M. (22) 227)

Hippocampus; In situ hybridization; Nonisotope; Spinal cord; Sodium channel (Black, J.A. (22) 275)

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Cerebellin; Gene structure; Neurological mutant; Chromosomal location (Kavety, B. (27) 152)

Cerebral cortex
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Transforming growth factor α; Epidermal growth factor; Brain; Hemidecortication; Neostriatum; Ontogeny; Plasticity; In situ hybridization (Kornblum, H.I. (21) 107)

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Cholinergic transmission; Nicotinic acetylcholine receptor; In situ hybridization; Digoxigenin; Human brain (Wevers, A. (25) 122)

$GABA_A$ receptor; Development; Downregulation; mRNA (Baumgartner, B.J. (26) 9)

Cerebral cortical neuron
NMDA receptor; $GABA_A$ receptor; Ca^{2+} influx; Voltage-dependent Ca channel blocker (Ohkuma, S. (27) 145)

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Alzheimer's disease; β/A4 Amyloid protein precursor; Sialic acid; Neuraminidase; Developmental change; Western blot analysis (Sodeyama, N. (27) 320)

c-*fos*
Visual cortex; Fos protein; Immediate early gene; Visual development; Proto-oncogene (Mower, G.D. (21) 47)

Seizure; c-*jun*; NGFI-A; Neuropeptide Y; Enkephalin; Dynorphin; Run-on transcription; Hippocampus (Yount, G.L. (21) 219)

Vasopressin; mRNA; Dehydration; In situ hybridization; Cycloheximide (Ding, J.M. (21) 247)

Glutamate; NMDA; MK-801; c-*jun*; Oncogene; Neuroprotection; Excitoprotection; Neurotoxicity; Excitotoxicity; Cerebellum; Neuron (Weller, M. (22) 227)

Nicotine; Reward; Reinforcement; Dopamine; NMDA; Dopamine antagonist; Striatum; Nucleus accumbens (Kiba, H. (23) 1)

Neurotensin; Neuromedin; Neostriatum; Haloperidol; AP-1 (Merchant, K.M. (23) 270)

Basic fibroblast growth factor; Cell proliferation; Genistein; Protein kinase C; Oligodendrocyte progenitor (Radhakrishna, M. (24) 118)

MK-801; NMDA receptor; Corticotropin-releasing factor; Hypothalamus; Rat (Lee, S. (24) 192)

c-*jun*; Immobilization; Hypothalamic paraventricuar nucleus; Pituitary; Adrenal gland; Rat (Senba, E. (24) 283)

Lithium; c-*jun*; *jun-B*; *jun-D*; Epilepsy; Cholinergic stimulation (Williams, M.B. (25) 80)

Hippocampus; Enkephalin; Immediate early gene; Transcription factor; Glutamate (Johnston, H.M. (25) 147)

Psychostimulant; Catecholamine re-uptake blocker; *NGFI-A* (zif268); Gene expression; Striatum; Withdrawal (Ennulat, D.J. (26) 106)

Circadian rhythm; Suprachiasmatic nucleus; mp41 (Ishida, N. (26) 197)

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NMDA; Opioid; Cortex; *zif*-268; Oncogene; In situ hybridization; Excitatory amino acid (Wang, J.Q. (27) 118)

c-*fos* expression
NMDA receptor gene expression; Cortical activation; Lactation; Brainstem activation; Locus coeruleus; Dorsal raphe (Abbud, R. (25) 323)

Chemical kindling
FG 7142; β-Carboline; $GABA_A$ receptor; Glutamate receptor; Benzodiazepine receptor (Lewin, E. (22) 320)

***p*-Chlorophenylalanine**
In situ hybridization; mRNA; Immunohistochemistry; Serotonin; Tryptophan hydroxylase; Gene regulation (Park, D.H. (22) 20)

Cholecystokinin
Stimulant; Gene regulation; Dopamine receptor; Enkephalin; Tyrosine hydroxylase; Dopamine transporter; In situ hybridization (De Bartolomeis, A. (21) 321)

Cholecystokinin mRNA
Morphine tolerance; Amygdaloid complex; In situ hybridization (Pu, S. (21) 183)

Cholesterol
Apolipoprotein E; Cerebellar cortex; Astrocyte; Glial fibrillary acidic protein immunocytochemistry (Lafarga, M. (21) 115)

Choline acetyltransferase
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In situ hybridization; mRNA; Aging; Alzheimer's disease; Neurodegeneration (Sugaya, K. (23) 111)

Cholinergic cell
Muscarinic receptor subtype; Muscarinic autoreceptor; Choline acetyltransferase; In situ hybridization; Oligonucleotide; Acetylcholine release; Rat brain (Vilaró, M.T. (21) 30)

Cholinergic neuron
mRNA; Growth-associated protein; Hybridization histochemistry (McKinney, M. (23) 213)

Cholinergic stimulation
Lithium; c-*fos*; c-*jun*; *jun-B*; *jun-D*; Epilepsy (Williams, M.B. (25) 80)

Cholinergic transmission
Cerebral cortex; Nicotinic acetylcholine receptor; In situ hybridization; Digoxigenin; Human brain (Wevers, A. (25) 122)

Choline transporter
Creatine transporter; Choline uptake; Hemicholinium-3; Acetylcholine; Nervous system; Gastrointestinal system (Gonzalez, A.M. (23) 266)

Choline uptake
Choline transporter; Creatine transporter; Hemicholinium-3; Acetylcholine; Nervous system; Gastrointestinal system (Gonzalez, A.M. (23) 266)

Choroid plexus
Northern blot analysis; In situ hybridization; Nervous system; Cerebellum; Cerebral cortex; Hippocampus; Caudate-putamen; Development (Zagon, I.S. (21) 85)

Choroid plexus epithelial cell
Insulin-like growth factor II; Insulin-like growth factor-binding protein-2; Sheep; Gene expression; Secretion; Cerebrospinal fluid; Brain (Holm, N.R. (21) 67)

Chromosomal location
Cerebellum; Cerebellin; Gene structure; Neurological mutant (Kavety, B. (27) 152)

Chronic ethanol treatment
$GABA_A$ receptor; β-Receptor subunit; mRNA level; Polypeptide expression; Up-regulation (Mhatre, M. (23) 246)

Chronic inflammation
Glutamic acid decarboxylase; Monoarthritis; Pain; GABA; In situ hybridization; Spinal cord; Rat (Castro-Lopes, J.M. (26) 169)

Chronic naltrexone
G protein expression; In situ hybridization histochemistry; Chronic selective agonist; Brain region (Rubino, T. (23) 333)

Chronic selective agonist
G protein expression; In situ hybridization histochemistry; Chronic naltrexone; Brain region (Rubino, T. (23) 333)

Chronic treatment
Single-stranded DNA; cAMP response element; DNA binding protein; Mouse cerebellum; Morphine (Osugi, T. (21) 256)

Ciliary neurotrophic factor
Astroglia; Immunochemistry; Glial fibrillary acidic protein (Henderson, J.T. (22) 151)

Cloning; Development; Nerve growth factor; PC12 cell; Schwann cell (MacLennan, A.J. (25) 251)

Circadian rhythm
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Melatonin deficiency; Serotonin *N*-acetyltransferase; Hydroxyindole-*O*-methyltransferase; Recombinant inbred strain; Gene mapping (Goto, M. (21) 349)

GluR1–4; NMDAR1; mGluR; Autoradiography; Biological clock (Gannon, R.L. (23) 338)

Vasopressin; mRNA; Suprachiasmatic nucleus; Supraoptic nucleus; Rat (Cagampang, F.R.A. (24) 179)

Suprachiasmatic nucleus; Biological clock; Serotonin; Immediate early gene; Brain slice; In situ hybridization (Prosser, R.A. (25) 151)

Suprachiasmatic nucleus; mp41; c-*fos* (Ishida, N. (26) 197)

AP-1; Immediate early gene; Immunohistochemistry; Light (Peters, R.V. (27) 243)

c-*jun*
Seizure; c-*fos*; NGFI-A; Neuropeptide Y; Enkephalin; Dynorphin; Run-on transcription; Hippocampus (Yount, G.L. (21) 219)

Glutamate; NMDA; MK-801; c-*fos*; Oncogene; Neuroprotection; Excitoprotection; Neurotoxicity; Excitotoxicity; Cerebellum; Neuron (Weller, M. (22) 227)

c-*fos*; Immobilization; Hypothalamic paraventricuar nucleus; Pituitary; Adrenal gland; Rat (Senba, E. (24) 283)

Lithium; c-*fos*; *jun-B*; *jun-D*; Epilepsy; Cholinergic stimulation (Williams, M.B. (25) 80)

Immediate early gene; Zebra finch; Canary; *zif*-268; NGFI-A; Metrazole; Songbird (Nastiuk, K.L. (27) 299)

Clonidine
Yohimbine; Somatostatin receptor; Adenylyl cyclase; G protein (López-Sañudo, S. (25) 143)

Tricyclic antidepressant; Desipramine; Norepinephrine transporter; α_2-Adrenoreceptor; Yohimbine; Locus ceruleus (Shores, M.M. (27) 337)

Cloning
Cytochrome P450; Sexual differentiation; Gene expression; RNA; Estrogen; Sex hormone (Shen, P. (24) 227)

Ciliary neurotrophic factor; Development; Nerve growth factor; PC12 cell; Schwann cell (MacLennan, A.J. (25) 251)

Ion channel; Maxi-K channel; BK channel; *hSlo* (Dworetzky, S.I. (27) 189)

Cocaine
Dopamine transporter; Dopamine uptake; Gene expression; Transporter regulation (Cerruti, C. (22) 132)

Sensitization; Striatum; Fos (Rosen, J.B. (25) 168)

Dopamine; Transporter; Three-dimensional structure; Molecular modeling; Molecular dynamics; Electrostatic potential (Edvardsen, Ø. (27) 265)

Cochlea
G_i protein; α Subunit; cDNA library; Molecular cloning; Immunohistochemistry; Affinity-purified antibody; Inner hair cell; Outer hair cell (Tachibana, M. (21) 355)

Coexpression
GABA; $GABA_A$ receptor; $\gamma 1$ Subunit; $\gamma 2$ Subunit; Trigeminal ganglion; Primary afferent system (Kondo, E. (21) 363)

Co-expression
Rat; In situ hybridization; Gene expression; Caudate-putamen; Striatopallidal; Striatal interneuron (Augood, S.J. (22) 204)

Nitric oxide synthase; Subthalamic nucleus; Striatum; Globus pallidus; mRNA; In situ hybridization; Human brain (Nisbet, A.P. (22) 329)

Compartment
DOI; LSD; Affinity state; Serotonin $5\text{-}HT_2$ receptor; Autoradiography (Waeber, C. (24) 199)

Confocal laser scanning microscopy
Human circumvallate papillae; Human foliate papillae; Immunohistochemistry; Taste transduction (Takami, S. (22) 193)

Contactin
Human; F3; F11; Cell adhesion; Glycosyl phosphatidylinositol; Antibody; cDNA; mRNA expression (Reid, R.A. (21) 1)

Contingent tolerance
$GABA_A$-benzodiazepine receptor complex; mRNA; Kindled seizure; Hippocampus; Carbamazepine; Receptor autoradiography; In situ hybridization (Clark, M. (26) 309)

Convulsant agent
Inducible hsp70 mRNA; Inducible hsp70; Necrosis; Brain (Planas, A.M. (27) 127)

Cortex
AMPA receptor; Hippocampus; Cerebellum; Human brain; Alzheimer's disease; Epilepsy; In situ hybridization (García-Ladona, F.J. (21) 75)

Trophic factor; Hippocampus; Fibroblast growth factor; In situ hybridization; Gene expression; Epilepsy (Gall, C.M. (21) 190)

Adenylate cyclase; Adrenalectomy; Calmodulin; In situ hybridization; Hippocampus (Gannon, M.N. (22) 186)

$GABA_A$ receptor complex; Benzodiazepine binding site, Type I; Zolpidem binding; Subunit specific antibody; Immunoprecipitation; Hippocampus (Ruano, D. (25) 225)

In situ hybridization; Neurotrophic factor; Pilocarpine; Seizure; Striatum; Dopaminergic system; Hippocampus (Schmidt-Kastner, R. (26) 325)

NMDA; Opioid; *zif*-268; c-*fos*; Oncogene; In situ hybridization; Excitatory amino acid (Wang, J.Q. (27) 118)

Cortical activation
NMDA receptor gene expression; Lactation; c-*fos* expression; Brainstem activation; Locus coeruleus; Dorsal raphe (Abbud, R. (25) 323)

Cortical neuron
$GABA_A$ receptor; Down-regulation; α-Subunit mRNA; α-Subunit polypeptide (Mhatre, M.C. (24) 159)

Corticosterone
Sleep–waking cycle; Glia; Glutamine synthetase; Glial fibrillary acidic protein (Sallanon-Moulin, M. (22) 113)

Galanin; Arcuate nucleus; Paraventricular nucleus; Dorsal raphe; mRNA (Akabayashi, A. (25) 305)

Sleep–waking cycle; Glutamine synthetase; Modafinil (Touret, M. (26) 123)

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Corticotrophin-releasing factor
Vasopressin; Vasoactive intestinal peptide; Glucocorticoid; Corticosterone; Dexamethasone; Suprachiasmatic nucleus; Paraventricular nucleus; In situ hybridization histochemistry; Rat (Larsen, P.J. (27) 342)

Corticotropin-releasing factor
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Vasopressin; Adrenalectomy; RU28362; Aldosterone (Albeck, D.S. (26) 129)

Corticotropin-releasing hormone
Paraventricular nucleus; Ethanol; In situ hybridization histochemistry; Transcription factor; Thyrotropin-releasing hormone (Zoeller, R.T. (24) 185)

Creatine transporter
Choline transporter; Choline uptake; Hemicholinium-3; Acetylcholine; Nervous system; Gastrointestinal system (Gonzalez, A.M. (23) 266)

CREB1
ATF1; Calcium; cAMP; Cell body response; CREM; Fos protein; Gene transcription; Immediate early gene; Jun protein; Regeneration (Herdegen, T. (26) 259)

CREM
ATF1; Calcium; cAMP; Cell body response; CREB1; Fos protein; Gene transcription; Immediate early gene; Jun protein; Regeneration (Herdegen, T. (26) 259)

C-terminus
Somatostatin receptor 2; SSTR2; Isoform; Alternative splicing desensitization; Distribution (Vanetti, M. (27) 45)

Culture
Aromatase; Estrogen synthetase; Neuron; Diencephalon; Reverse transcriptase-polymerase chain reaction technique (Abe-Dohmae, S. (24) 153)

Cultured cortical cell
L-Carnitine; GABA; Acetyl-L-carnitine; Carrier-mediated transport; Energy-dependent; Na-dependent (Virmani, M.A. (25) 105)

Culture of striatal and cerebellar astrocytes
In situ hybridization; Polymerase chain reaction; Immunocytochemistry; Dopamine D_2 receptor mRNA (Bal, A. (23) 204)

Cycloheximide
Vasopressin; c-*fos*; mRNA; Dehydration; In situ hybridization (Ding, J.M. (21) 247)

Glucocorticoid; In vitro translation; Two-dimensional gel electrophoresis; Glutamine synthetase; Glucocortin; Glial fibrillary acidic protein (O'Banion, M.K. (22) 57)

Cytochrome P450
Sexual differentiation; Gene expression; RNA; Estrogen; Sex hormone; Cloning (Shen, P. (24) 227)

Cytokine
Hippocampus; Dentate gyrus; Pia; Astrocyte; Gene regulation; Acidic fibroblast growth factor; In situ hybridization (Rivera, S. (27) 12)

Cytoskeletal disorder
Proline-dependent phosphorylation (Ulloa, L. (26) 113)

Cytoskeleton
Microtubule; Alternative splicing; MAP2 (Kindler, S. (26) 218)

Cytosolic protein
Forebrain-enriched; Postsynaptic; Synaptosomal solubilization (Watson, J.B. (27) 323)

Cytotoxicity
Alzheimer's disease; Amyloid precursor protein; Tetracycline-responsive promoter; Neuroblastoma; SK-N-MC (Sopher, B.L. (26) 207)

D

jun-D
Lithium; c-*fos*; c-*jun*; *jun-B*; Epilepsy; Cholinergic stimulation (Williams, M.B. (25) 80)

DARPP-32
In situ hybridization; Ontogeny; Rat brain (Sakagami, H. (25) 67)

Defective herpes simplex vector
Growth-associated protein B-50/GAP-43; Gene transfer; Process formation (Verhaagen, J. (26) 26)

Dehydration
Vasopressin; c-*fos*; mRNA; In situ hybridization; Cycloheximide (Ding, J.M. (21) 247)

Delivery system
Development; Gene expression; Nerve growth factor; Post-transcriptional regulation; Transgenesis (Onténiente, B. (21) 225)

Dendrite
mRNA translocation; MAP2; Neurogranin; RC3; Glial fibrillary acidic protein; Myelin basic protein; Oligodendrocyte; Reactive astrocyte (Landry, C.F. (27) 1)

Dendrite spine
Gene expression; Initiator element; Thyroid hormone; Glucocorticoid; Retinoic acid (Iñiguez, M.A. (27) 205)

Denervation
Acetylcholine receptor; Phosphorylation; Forskolin; Developmental switch; Receptor regulation (Jayawickreme, S.P. (26) 293)

Densitometry
Nerve growth factor; Inferior frontal gyrus; Phosphorimage analysis; Northern blotting; Dot blotting; Postmortem interval; mRNA yields (Jetté, N. (25) 242)

Dentate gyrus
Neuropeptide Y; Electroconvulsive shock; Limbic cortex; Hippocampus; Piriform cortex; Peptide expression; In situ hybridization histochemistry (Mikkelsen, J.D. (23) 317)

In situ hybridization; $GABA_A$ receptor subunit; Kindling; Hippocampus; Epilepsy (Kokaia, M. (23) 323)

Hypertension; Blood pressure; Dynorphin; In situ hybridization (Wang, J.Q. (23) 345)

Glial acidic fibrillary protein; mRNA; Electroconvulsive seizure (Steward, O. (25) 217)

Cytokine; Hippocampus; Pia; Astrocyte; Gene regulation; Acidic fibroblast growth factor; In situ hybridization (Rivera, S. (27) 12)

Depolarization
Tyrosine hydroxylase; Gene regulation; Adrenal medulla (Stachowiak, M.K. (22) 309)

Desensitization
Nicotinic acetylcholine receptor; *Torpedo*; Muscle; *Xenopus* oocyte; Site-directed mutagenesis; cAMP-dependent phosphorylation; Gentamicin (Nishizaki, T. (21) 99)

Acetylcholine receptor; *Xenopus* oocyte; Ca^{2+} permeability; cAMP-dependent phosphorylation; Site-directed mutagenesis (Nishizaki, T. (24) 341)

Desipramine
Tricyclic antidepressant; Clonidine; Norepinephrine transporter; α_2-Adrenoreceptor; Yohimbine; Locus ceruleus (Shores, M.M. (27) 337)

Development
Northern blot analysis; In situ hybridization; Nervous system; Cerebellum; Cerebral cortex; Hippocampus; Choroid plexus; Caudate-putamen (Zagon, I.S. (21) 85)

Delivery system; Gene expression; Nerve growth factor; Post-transcriptional regulation; Transgenesis (Onténiente, B. (21) 225)

14-3-3 Protein; ζ Subtype; θ Subtype; cDNA cloning; In situ hybridization; Brain; Rat (Watanabe, M. (25) 113)

Ciliary neurotrophic factor; Cloning; Nerve growth factor; PC12 cell; Schwann cell (MacLennan, A.J. (25) 251)

$GABA_A$ receptor; Cerebral cortex; Down-regulation; mRNA (Baumgartner, B.J. (26) 9)

Ribonuclease protection assay; Central nervous system; Hypothalamus; Hippocampal–amygdala complex; Frontal cerebral cortex; Brainstem (Keiger, C.J. (27) 103)

Developmental change
Alzheimer's disease; β/A4 Amyloid protein precursor; Sialic acid; Neuraminidase; Cerebrospinal fluid; Western blot analysis (Sodeyama, N. (27) 320)

Developmental switch
Acetylcholine receptor; Phosphorylation; Forskolin; Denervation; Receptor regulation (Jayawickreme, S.P. (26) 293)

Dexamethasone
AP-1; Immediate early gene; Glucocorticoid; Fos; Jun (Unlap, T. (24) 275)

Nerve growth factor; Lithium; cAMP; Gene expression; Neuropeptide; Neuromedin N (Bullock, B.P. (27) 232)

Vasopressin; Vasoactive intestinal peptide; Corticotrophin-releasing factor; Glucocorticoid; Corticosterone; Suprachiasmatic nucleus; Paraventricular nucleus; In situ hybridization histochemistry; Rat (Larsen, P.J. (27) 342)

Diabetes mellitus
Brain-derived neurotrophic factor; Calcitonin gene-related peptide; Diabetic neuropathy; Nerve growth factor; Substance P (Diemel, L.T. (21) 171)

Diabetic neuropathy
Brain-derived neurotrophic factor; Calcitonin gene-related peptide; Diabetes mellitus; Nerve growth factor; Substance P (Diemel, L.T. (21) 171)

Dialysis
Morphine; Dopamine neuron; Hypothalamus; Tyrosine hydroxylase mRNA; Preoptic DOPAC (Molnar, J. (22) 97)

Diencephalon
Aromatase; Estrogen synthetase; Neuron; Reverse transcriptase-polymerase chain reaction technique; Culture (Abe-Dohmae, S. (24) 153)

otx homeoprotein; Zebrafish; Brain development; Embryogenesis; Gastrulation; Midbrain (Mori, H. (27) 221)

Differential display
sgk; Brain injury; Oligodendrocyte; Transcriptional regulation (Imaizumi, K. (26) 189)

Digoxigenin
Vomeronasal organ; Septal organ; Olfactory receptor; Olfactory marker protein; Mouse (Kishimoto, J. (23) 33)

Cerebral cortex; Cholinergic transmission; Nicotinic acetylcholine receptor; In situ hybridization; Human brain (Wevers, A. (25) 122)

Digoxigenin-labeled cRNA
Rat; Retina; In situ hybridization; $GABA_A$ receptor α1 subunit; L-Glutamate decarboxylase; Retinal ganglion cell (Kosaka, J. (25) 163)

Dihydrotestosterone
Proopiomelanocortin; β-Endorphin; Androgen; Estradiol; Hypothalamus (Matera, C. (27) 275)

Dihydrotetrahydrobenazine
Synaptic vesicle; Monoamine transporter; Reserpine; Serotonin; Dopamine; Norepinephrine; Epinephrine (Gonzalez, A.M. (22) 219)

5,6-Dihydroxytryptamine
Tyrosine hydroxylase; Locus coeruleus; Serotonin/norepinephrine interaction; Neurotoxin; Gene expression (Sturtz, F. (22) 107)

1,25-Dihydroxyvitamin D_3
Nerve growth factor; Vitamin D receptor; Astrocyte; Gene regulation; Cell culture (Neveu, I. (24) 70)

Dimeric interleukin-2
Herpes simplex viral vector; Oligodendrocyte (Eizenberg, O. (26) 156)

Dipeptidyl peptidase IV
cDNA cloning; In situ hybridization; Long-term potentiation; Kainate (De Lecea, L. (25) 286)

Direct mass spectrometry of nervous tissue
Myo-modulatory peptide; Edman degradation; Reproductive behavior; Mollusc; *Lymnaea stagnalis* (Li, K.W. (25) 355)

Distribution
GABA transporter; Immunocytochemistry; Antibody; Ependyma; Arachnoid (Ikegaki, N. (26) 47)

Somatostatin receptor 2; SSTR2; Isoform; C-terminus; Alternative splicing desensitization (Vanetti, M. (27) 45)

Dizocilpine MK-801
In situ hybridization; Glutamic acid decarboxylase mRNA; Dopamine D_1 receptor; Dopamine D_2 receptor; NMDA receptor; Fluphenazine-*N*-mustard; EEDQ; Gene regulation (Qin, Z.-H. (21) 293)

cDNA
Human; Contactin; F3; F11; Cell adhesion; Glycosyl phosphatidylinositol; Antibody; mRNA expression (Reid, R.A. (21) 1)

Glutamate transporter; *Xenopus* oocyte; Rat brain; Inhibitor (Tanaka, K. (21) 167)

NP25; Central nervous system (Ren, W.-Z. (22) 173)

Embryonal carcinoma cell; Retinoic acid; Neural differentiation; Subtractive hybridization (Imai, Y. (24) 313)

Cerebellum; Granule cell; Human; Hippocampal formation; In situ hybridization; Mouse; Olfactory bulb; Substantia nigra (Kambouris, M. (25) 192)

DNA binding protein
Single-stranded DNA; cAMP response element; Mouse cerebellum; Morphine; Chronic treatment (Osugi, T. (21) 256)

cDNA cloning
14-3-3 Protein; ζ Subtype; θ Subtype; In situ hybridization; Brain; Development; Rat (Watanabe, M. (25) 113)

In situ hybridization; Long-term potentiation; Kainate; Dipeptidyl peptidase IV (De Lecea, L. (25) 286)

Ischemia; Phospholipase A_2; Rat brain (Owada, Y. (25) 364)

Opioid receptor; Rat brain; Transmembrane protein; Transient expression; In situ hybridization (Wick, M.J. (27) 37)

cDNA expression
NMDA receptor channel; ϵ2 Subunit; ζ1 Subunit; *Xenopus* oocyte; Single-channel current; Cation permeability (Tsuzuki, K. (26) 37)

cDNA expression library
Antiserum; Cerebellum; Granule cell; In situ hybridization; Novel clone; Western blot (Kambouris, M. (25) 183)

cDNA library
G_i protein; α Subunit; Molecular cloning; Immunohistochemistry; Affinity-purified antibody; Cochlea; Inner hair cell; Outer hair cell (Tachibana, M. (21) 355)

DNA methylation
Amyloid precursor protein; Neurodegeneration; Gene regulation (Ledoux, S. (24) 140)

Dogfish
Subcommissural organ; Secretory glycoprotein; Biochemistry; Immunocytochemistry; *Scyliorhinus canicula* (Grondona, J.M. (26) 299)

DOI
LSD; Affinity state; Compartment; Serotonin 5-HT_2 receptor; Autoradiography (Waeber, C. (24) 199)

Dopamine
Striatal neuron; Adenylate cyclase; Calcium ionophore A23187; Protein kinase C; Phorbol myristate acetate (Schinelli, S. (21) 162)

Dopamine receptor; Glutamate; Hippocampus; Nucleus accumbens; Basal ganglia (Brené, S. (21) 274)

Synaptic vesicle; Monoamine transporter; Dihydrotetrahydrobenazine; Reserpine; Serotonin; Norepinephrine; Epinephrine (Gonzalez, A.M. (22) 219)

Adenylyl cyclase; Striatum; Acetylcholine; Calcium; mRNA (Mons, N. (22) 236)

Nicotine; Reward; Reinforcement; c-*fos*; NMDA; Dopamine antagonist; Striatum; Nucleus accumbens (Kiba, H. (23) 1)

Preprocholecystokinin; In situ hybridization; Gene expression; Brain; MDMA (Wotherspoon, G. (25) 34)

Glutamate decarboxylase; Parkinson's disease; Basal ganglia; MPTP; Monkey (Pedneault, S. (25) 351)

Transporter; Cocaine; Three-dimensional structure; Molecular modeling; Molecular dynamics; Electrostatic potential (Edvardsen, Ø. (27) 265)

Norepinephrine; Promoter analysis; Catecholaminergic neuron (Min, N. (27) 281)

Dopamine antagonist
Nicotine; Reward; Reinforcement; Dopamine; c-*fos*; NMDA; Striatum; Nucleus accumbens (Kiba, H. (23) 1)

Dopamine β-hydroxylase
Adrenal gland; Neural regulation; In vivo (Wong, D.L. (25) 57)

Dopamine D_1 receptor
In situ hybridization; Glutamic acid decarboxylase mRNA; Dopamine D_2 receptor; NMDA receptor; Dizocilpine MK-801; Fluphenazine-*N*-mustard; EEDQ; Gene regulation (Qin, Z.-H. (21) 293)

Dopamine D_2 receptor; Striatum; 6-Hydroxydopamine lesion; In vitro receptor autoradiography; In situ hybridization (Jongen-Rêlo, A.L. (25) 333)

Dopamine D_2 receptor; Dopamine D_5 receptor; Northern blot analysis (Laurier, L.G. (25) 344)

Dopamine D_3 receptor
In situ hybridization; Glutamic acid decarboxylase mRNA; Dopamine D_1 receptor; NMDA receptor; Dizocilpine MK-801; Fluphenazine-*N*-mustard; EEDQ; Gene regulation (Qin, Z.-H. (21) 293)

Dopamine D_1 receptor; Striatum; 6-Hydroxydopamine lesion; In vitro receptor autoradiography; In situ hybridization (Jongen-Rêlo, A.L. (25) 333)

Dopamine D_1 receptor; Dopamine D_5 receptor; Northern blot analysis (Laurier, L.G. (25) 344)

Dopamine D_2 receptor mRNA
In situ hybridization; Polymerase chain reaction; Immunocytochemistry; Culture of striatal and cerebellar astrocytes (Bal, A. (23) 204)

Dopamine D_5 receptor
Dopamine D_1 receptor; Dopamine D_2 receptor; Northern blot analysis (Laurier, L.G. (25) 344)

Dopamine neuron
Morphine; Hypothalamus; Tyrosine hydroxylase mRNA; Preoptic DOPAC; Dialysis (Molnar, J. (22) 97)

Dopamine receptor
Glutamate; Dopamine; Hippocampus; Nucleus accumbens; Basal ganglia (Brené, S. (21) 274)

Stimulant; Gene regulation; Enkephalin; Tyrosine hydroxylase; Cholecystokinin; Dopamine transporter; In situ hybridization (De Bartolomeis, A. (21) 321)

Haloperidol; Sulpiride; In situ hybridization; Northern blot; Rat brain (Jaber, M. (23) 14)

NMDA receptor; MK-801; Opioid peptide; Immediate-early gene; Transcription factor; Gene regulation; Striatum (Bronstein, D.M. (23) 191)

RNA-PCR; Receptor expression; Schizophrenia (Roberts, D.A. (25) 173)

Dopaminergic neuron
Excitotoxicity; Glutamate receptor; Calcium channel; Fura-2; Calcium; Primary culture (De Erausquin, G. (21) 303)

Dopaminergic system
In situ hybridization; Neurotrophic factor; Pilocarpine; Seizure; Striatum; Hippocampus; Cortex (Schmidt-Kastner, R. (26) 325)

Dopamine transporter
Stimulant; Gene regulation; Dopamine receptor; Enkephalin; Tyrosine hydroxylase; Cholecystokinin; In situ hybridization (De Bartolomeis, A. (21) 321)

Dopamine uptake; Gene expression; Transporter regulation; Cocaine (Cerruti, C. (22) 132)

Dopamine uptake
Substantia nigra; Tyrosine hydroxylase; mRNA expression; Immunoautoradiography (Blanchard, V. (22) 29)

Dopamine transporter; Gene expression; Transporter regulation; Cocaine (Cerruti, C. (22) 132)

Dorsal raphe
Galanin; Corticosterone; Arcuate nucleus; Paraventricular nucleus; mRNA (Akabayashi, A. (25) 305)

NMDA receptor gene expression; Cortical activation; Lactation; c-*fos* expression; Brainstem activation; Locus coeruleus (Abbud, R. (25) 323)

Dorsal root ganglion
Capsaicin; Resiniferatoxin; Nociception (Ninkina, N.N. (22) 39)

Neurofilament expression; Postnatal upregulation; mRNA stability; Primary culture; Actinomycin (Schwartz, M.L. (27) 215)

Dot blotting
Nerve growth factor; Inferior frontal gyrus; Phosphorimage analysis; Densitometry; Northern blotting; Postmortem interval; mRNA yields (Jetté, N. (25) 242)

Double in situ hybridization
Interleukin-1 receptor; Neuron-specific enolase; Rat (Yabuuchi, K. (27) 27)

Down-regulation
$GABA_A$ receptor; α-Subunit mRNA; α-Subunit polypeptide; Cortical neuron (Mhatre, M.C. (24) 159)

Downregulation
$GABA_A$ receptor; Cerebral cortex; Development; mRNA (Baumgartner, B.J. (26) 9)

$GABA_A$ receptor; Benzodiazepine receptor; Flunitrazepam; mRNA; Cerebellum (Calkin, P.A. (26) 18)

Down's syndrome
Glial S100b; Protein F1/GAP43; Protein kinase C; Synaptic plasticity; Alzheimer's disease (Sheu, F.-S. (21) 62)

DPDPE
Opioid receptor; *Xenopus* oocyte; mRNA; Ca^{2+}-dependent Cl^- channel; Naloxone (Kaneko, S. (22) 69)

Drug abuse
Opiate; Calcium ion; Calcium binding protein; Cerebellum (Tirumalai, P.S. (23) 144)

Drug screening
Antipsychotic; Fos; Fos-related antigen; FosB; c-Jun; JunB; JunD; Krox24; Tardive dyskinesia (MacGibbon, G.A. (23) 21)

Dwarfism
Transgenic mouse; Tyrosine hydroxylase; Human growth hormone; Cell-type specificity; Gene regulation (Banerjee, S.A. (24) 89)

Dynorphin
Seizure; c-*fos*; c-*jun*; NGFI-A; Neuropeptide Y; Enkephalin; Run-on transcription; Hippocampus (Yount, G.L. (21) 219)

Hypertension; Blood pressure; Dentate gyrus; In situ hybridization (Wang, J.Q. (23) 345)

Transcription factor; Proto-oncogene; Tyrosine kinase; Phosphotyrosine (Gu, J. (24) 77)

Dysfunctional behavior
Anorexia; Hyperinnervation; Serotonergic stimulation; Mouse mutant (Son, J.H. (25) 129)

E

Edman degradation
α_1 Peptide; α_2 Peptide; ProVD1/RPD2-A; ProVD1/RPD2-B; HPLC; Heart beat stimulation; *Lymnaea* (Bogerd, J. (23) 66)

Myo-modulatory peptide; Direct mass spectrometry of nervous tissue; Reproductive behavior; Mollusc; *Lymnaea stagnalis* (Li, K.W. (25) 355)

EEDQ
In situ hybridization; Glutamic acid decarboxylase mRNA; Dopamine D_1 receptor; Dopamine D_2 receptor; NMDA receptor; Dizocilpine MK-801; Fluphenazine-*N*-mustard; Gene regulation (Qin, Z.-H. (21) 293)

Electroconvulsive seizure
Glial acidic fibrillary protein; mRNA; Dentate gyrus (Steward, O. (25) 217)

Electroconvulsive shock
Neuropeptide Y; Limbic cortex; Hippocampus; Dentate gyrus; Piriform cortex; Peptide expression; In situ hybridization histochemistry (Mikkelsen, J.D. (23) 317)

Electrostatic potential
Dopamine; Transporter; Cocaine; Three-dimensional structure; Molecular modeling; Molecular dynamics (Edvardsen, Ø. (27) 265)

Embryogenesis
otx homeoprotein; Zebrafish; Brain development; Gastrulation; Diencephalon; Midbrain (Mori, H. (27) 221)

Embryonal carcinoma cell
Retinoic acid; Neural differentiation; Subtractive hybridization; cDNA (Imai, Y. (24) 313)

Embryonic development
Neural retina; Müller glia; Glutamine synthetase; Hormonal induction; Glucocorticoid receptor (Grossman, R. (21) 312)

Emotionality
Fyn kinase-deficient mouse; Increased fearfulness; Novelty preference; Light aversion; Passive avoidance; Mutant mouse; Polymerase chain reaction (Miyakawa, T. (27) 179)

Endocrine
Peptide neurotransmittter; Prohormone processing; Protease; Neuropeptide (Hwang, S.-R. (25) 135)

β-Endorphin
Motoneuron; Pro-opiomelanocortin; In situ hybridization; α-Melanotropin; Neuropeptide (Hughes, S. (25) 41)

Proopiomelanocortin; Androgen; Dihydrotestosterone; Estradiol; Hypothalamus (Matera, C. (27) 275)

Endothelium
Blood–brain barrier; Ependyma (Petrov, T. (21) 235)

Energy-dependent
L-Carnitine; GABA; Acetyl-L-carnitine; Carrier-mediated transport; Na-dependent; Cultured cortical cell (Virmani, M.A. (25) 105)

Enhancer trap
Neuron-specific transgene expression; Neurofilament subunit M gene; Transgenic mouse (Elder, G.A. (26) 177)

Enkephalin
Seizure; c-*fos*; c-*jun*; NGFI-A; Neuropeptide Y; Dynorphin; Run-on transcription; Hippocampus (Yount, G.L. (21) 219)

Stimulant; Gene regulation; Dopamine receptor; Tyrosine hydroxylase; Cholecystokinin; Dopamine transporter; In situ hybridization (De Bartolomeis, A. (21) 321)

c-*fos*; Hippocampus; Immediate early gene; Transcription factor; Glutamate (Johnston, H.M. (25) 147)

Kindling; Thyrotropin-releasing hormone; Neuropeptide Y; In situ hybridization; mRNA; Neuropeptide; Amygdala; Hippocampus; Entorhinal cortex; Pyriform cortex; Perirhinal cortex (Rosen, J.B. (27) 71)

Entorhinal cortex
Metabotropic glutamate receptor; Hippocampus; Phosphoinositide-linked receptor; Excitotoxicity (Fotuhi, M. (21) 283)

Kindling; Thyrotropin-releasing hormone; Enkephalin; Neuropeptide Y; In situ hybridization; mRNA; Neuropeptide; Amygdala; Hippocampus; Pyriform cortex; Perirhinal cortex (Rosen, J.B. (27) 71)

Ependyma
Blood–brain barrier; Endothelium (Petrov, T. (21) 235)

GABA transporter; Immunocytochemistry; Distribution; Antibody; Arachnoid (Ikegaki, N. (26) 47)

Epidermal growth factor
Transforming growth factor α; Brain; Cerebral cortex; Hemidecortication; Neostriatum; Ontogeny; Plasticity; In situ hybridization (Kornblum, H.I. (21) 107)

Epilepsy
AMPA receptor; Hippocampus; Cortex; Cerebellum; Human brain; Alzheimer's disease; In situ hybridization (García-Ladona, F.J. (21) 75)

Trophic factor; Hippocampus; Cortex; Fibroblast growth factor; In situ hybridization; Gene expression (Gall, C.M. (21) 190)

Zinc finger protein; KROX-20; HSP70; Immunocytochemistry; Kainate (Gass, P. (23) 292)

In situ hybridization; $GABA_A$ receptor subunit; Kindling; Hippocampus; Dentate gyrus (Kokaia, M. (23) 323)

Lithium; c-*fos*; c-*jun*; *jun-B*; *jun-D*; Cholinergic stimulation (Williams, M.B. (25) 80)

Epileptic seizure
Rat; Transplantation; Immunocytochemistry; Transcription factor; Fos; Jun; Krox (Bele, S. (22) 9)

Epinephrine
Synaptic vesicle; Monoamine transporter; Dihydrotetrahydrobenazine; Reserpine; Serotonin; Dopamine; Norepinephrine (Gonzalez, A.M. (22) 219)

Epitope mapping
NSP expression in brain; Anti-NSP antibody (Van de Velde, H.J.K. (23) 81)

Esophageal peristalsis
NMDA receptor; Nucleus tractus solitarii; Nucleus ambiguus; Pseudorabies virus; In situ hybridization; Immunohistochemistry (Broussard, D.L. (27) 329)

Estradiol
Proopiomelanocortin; β-Endorphin; Androgen; Dihydrotestosterone; Hypothalamus (Matera, C. (27) 275)

Estrogen
Cytochrome P450; Sexual differentiation; Gene expression; RNA; Sex hormone; Cloning (Shen, P. (24) 227)

Estrogen synthetase
Aromatase; Neuron; Diencephalon; Reverse transcriptase-polymerase chain reaction technique; Culture (Abe-Dohmae, S. (24) 153)

Ethanol
GABA receptor; Benzodiazepine receptor; Antibody; Rat brain; In situ hybridization; γ_2 Subunit (Miralles, C.P. (24) 129)

Paraventricular nucleus; In situ hybridization histochemistry; Transcription factor; Thyrotropin-releasing hormone; Corticotropin-releasing hormone (Zoeller, R.T. (24) 185)

$GABA_A$ receptor; α1 Subunit; α6 Subunit; β2 Subunit; WSR mouse; WSP mouse; Northern blot analysis (Keir, W.J. (25) 200)

NG108-15 cell; δ-Opioid receptor; mRNA; Solution hybridization; Naloxone; Gene expression (Jenab, S. (27) 95)

Alcohol; Alcoholism; Calmodulin; Membrane fluidity; Synaptic plasma membrane (Iqbal, Z. (27) 333)

Excitatory amino acid
NMDA; Opioid; Cortex; *zif*-268; c-*fos*; Oncogene; In situ hybridization (Wang, J.Q. (27) 118)

Excitoprotection
Glutamate; NMDA; MK-801; c-*fos*; c-*jun*; Oncogene; Neuroprotection; Neurotoxicity; Excitotoxicity; Cerebellum; Neuron (Weller, M. (22) 227)

Excitotoxicity
Metabotropic glutamate receptor; Hippocampus; Entorhinal cortex; Phosphoinositide-linked receptor (Fotuhi, M. (21) 283)

Glutamate receptor; Calcium channel; Fura-2; Calcium; Dopaminergic neuron; Primary culture (De Erausquin, G. (21) 303)

Glutamate; NMDA; MK-801; c-*fos*; c-*jun*; Oncogene; Neuroprotection; Excitoprotection; Neurotoxicity; Cerebellum; Neuron (Weller, M. (22) 227)

Limbic seizure; Neurotrophin; In situ hybridization histochemistry (Rocamora, N. (26) 89)

Neuronal transfection; Gene therapy (Bahr, B.A. (26) 277)

F

F3
Human; Contactin; F11; Cell adhesion; Glycosyl phosphatidylinositol; Antibody; cDNA; mRNA expression (Reid, R.A. (21) 1)

F11
Human; Contactin; F3; Cell adhesion; Glycosyl phosphatidylinositol; Antibody; cDNA; mRNA expression (Reid, R.A. (21) 1)

Facial nucleus
Sodium channel; Sodium channel type I; Sodium channel type II; Sodium channel type III; Brain; Motor neuron; Nerve transection; In situ hybridization (Iwahashi, Y. (22) 341)

GAP-43; Rat brain; Immunocytochemistry; mRNA; Axotomy (Palacios, G. (24) 107)

Feeding behavior
Neuropeptide Y; Antisense oligonucleotide; Arcuate nucleus; Paraventricular nucleus (Akabayashi, A. (21) 55)

FG 7142
Chemical kindling; β-Carboline; $GABA_A$ receptor; Glutamate receptor; Benzodiazepine receptor (Lewin, E. (22) 320)

Fibroblast
Nerve growth factor; Transcription; Repressor (Cowie, A. (27) 58)

Fibroblast growth factor
Trophic factor; Hippocampus; Cortex; In situ hybridization; Gene expression; Epilepsy (Gall, C.M. (21) 190)

Fibroblast growth factor receptor
Fibroblast growth factor receptor-4; Rat; Brain; Medial habenular nucleus; Neuron; mRNA; Gene expression (Itoh, N. (21) 344)

Basic fibroblast growth factor; Ischemia; *flg*; Hippocampus; Gene expression (Endoh, M. (22) 76)

Basic fibroblast growth factor; Brain injury; Somatosensory cortex ablation model; Retrograde degeneration; Thalamus (Yuguchi, T. (25) 50)

Fibroblast growth factor receptor-4
Fibroblast growth factor receptor; Rat; Brain; Medial habenular nucleus; Neuron; mRNA; Gene expression (Itoh, N. (21) 344)

flg
Basic fibroblast growth factor; Ischemia; Fibroblast growth factor receptor; Hippocampus; Gene expression (Endoh, M. (22) 76)

Flunitrazepam
$GABA_A$ receptor; Benzodiazepine receptor; Downregulation; mRNA; Cerebellum (Calkin, P.A. (26) 18)

Fluphenazine-*N*-mustard
In situ hybridization; Glutamic acid decarboxylase mRNA; Dopamine D_1 receptor; Dopamine D_2 receptor; NMDA receptor; Dizocilpine MK-801; EEDQ; Gene regulation (Qin, Z.-H. (21) 293)

FMRFamide
Neuropeptide; Gene regulation (Schinkmann, K. (24) 238)

Focal brain ischemia
Intercellular adhesion molecule 1; Stroke; Reperfusion; Inflammation (Wang, X. (26) 61)

Forebrain-enriched
Postsynaptic; Cytosolic protein; Synaptosomal solubilization (Watson, J.B. (27) 323)

Forskolin
Acetylcholine receptor; Phosphorylation; Denervation; Developmental switch; Receptor regulation (Jayawickreme, S.P. (26) 293)

Fos
Rat; Transplantation; Immunocytochemistry; Epileptic seizure; Transcription factor; Jun; Krox (Bele, S. (22) 9)

Antipsychotic; Fos-related antigen; FosB; c-Jun; JunB; JunD; Krox24; Tardive dyskinesia; Drug screening (MacGibbon, G.A. (23) 21)

AP-1; Immediate early gene; Glucocorticoid; Dexamethasone; Jun (Unlap, T. (24) 275)

Brain damage; Programmed cell death; Jun; Krox; Brain-derived neurotrophic factor (Dragunow, M. (25) 19)

Sensitization; Striatum; Cocaine (Rosen, J.B. (25) 168)

c-Fos
Glutamate; Glia; NGFI-A; Type 1 astrocyte; Optic nerve (Mack, K.J. (23) 73)

FosB
Antipsychotic; Fos; Fos-related antigen; c-Jun; JunB; JunD; Krox24; Tardive dyskinesia; Drug screening (MacGibbon, G.A. (23) 21)

Fos protein
Visual cortex; c-*fos*; Immediate early gene; Visual development; Proto-oncogene (Mower, G.D. (21) 47)

ATF1; Calcium; cAMP; Cell body response; CREB1; CREM; Gene transcription; Immediate early gene; Jun protein; Regeneration (Herdegen, T. (26) 259)

Fos-related antigen
Antipsychotic; Fos; FosB; c-Jun; JunB; JunD; Krox24; Tardive dyskinesia; Drug screening (MacGibbon, G.A. (23) 21)

Frontal cerebral cortex
Ribonuclease protection assay; Central nervous system; Hypothalamus; Hippocampal–amygdala complex; Brainstem; Development (Keiger, C.J. (27) 103)

Fura-2
Excitotoxicity; Glutamate receptor; Calcium channel; Calcium; Dopaminergic neuron; Primary culture (De Erausquin, G. (21) 303)

Fusion gene
Thy-1; Transgenic mouse; Northern analysis; β-Galactosidase; Regulatory element (Kelley, K.A. (24) 261)

Fyn kinase-deficient mouse
Increased fearfulness; Emotionality; Novelty preference; Light aversion; Passive avoidance; Mutant mouse; Polymerase chain reaction (Miyakawa, T. (27) 179)

G

GABA
Transport; mRNA; cAMP; Neuron; Glial cell (Gomeza, J. (21) 150)

$GABA_A$ receptor; γ1 Subunit; γ2 Subunit; Coexpression; Trigeminal ganglion; Primary afferent system (Kondo, E. (21) 363)

L-Carnitine; Acetyl-L-carnitine; Carrier-mediated transport; Energy-dependent; Na-dependent; Cultured cortical cell (Virmani, M.A. (25) 105)

Glutamic acid decarboxylase; Monoarthritis; Chronic inflammation; Pain; In situ hybridization; Spinal cord; Rat (Castro-Lopes, J.M. (26) 169)

$GABA_A$-benzodiazepine receptor complex
mRNA; Kindled seizure; Hippocampus; Carbamazepine; Receptor autoradiography; Contingent tolerance; In situ hybridization (Clark, M. (26) 309)

GABA receptor
Benzodiazepine receptor; Antibody; Rat brain; In situ hybridization; Ethanol; γ_2 Subunit (Miralles, C.P. (24) 129)

$GABA_A$ receptor
GABA; γ1 Subunit; γ2 Subunit; Coexpression; Trigeminal ganglion; Primary afferent system (Kondo, E. (21) 363)

Chemical kindling; FG 7142; β-Carboline; Glutamate receptor; Benzodiazepine receptor (Lewin, E. (22) 320)

Chronic ethanol treatment; β-Receptor subunit; mRNA level; Polypeptide expression; Upregulation (Mhatre, M. (23) 246)

Phosphorylation; Protein kinase A (Jalilian Tehrani, M.H. (24) 55)

Down-regulation; α-Subunit mRNA; α-Subunit polypeptide; Cortical neuron (Mhatre, M.C. (24) 159)

α1 Subunit; α6 Subunit; β2 Subunit; WSR mouse; WSP mouse; Ethanol; Northern blot analysis (Keir, W.J. (25) 200)

Cerebral cortex; Development; Downregulation; mRNA (Baumgartner, B.J. (26) 9)

Benzodiazepine receptor; Downregulation; Flunitrazepam; mRNA; Cerebellum (Calkin, P.A. (26) 18)

NMDA receptor; Ca^{2+} influx; Voltage-dependent Ca channel blocker; Cerebral cortical neuron (Ohkuma, S. (27) 145)

$GABA_A$ receptor α1 subunit
Rat; Retina; In situ hybridization; L-Glutamate decarboxylase; Retinal ganglion cell; Digoxigenin-labeled cRNA (Kosaka, J. (25) 163)

$GABA_A$ receptor complex
Benzodiazepine binding site, Type I; Zolpidem binding; Subunit specific antibody; Immunoprecipitation; Cortex; Hippocampus (Ruano, D. (25) 225)

$GABA_A$ receptor subunit
In situ hybridization; Kindling; Hippocampus; Dentate gyrus; Epilepsy (Kokaia, M. (23) 323)

mRNA expression; Locus coeruleus; In situ hybridization histochemistry (Luque, J.M. (24) 219)

GABA transporter
Immunocytochemistry; Distribution; Antibody; Ependyma; Arachnoid (Ikegaki, N. (26) 47)

β-Galactosidase
Thy-1; Transgenic mouse; Fusion gene; Northern analysis; Regulatory element (Kelley, K.A. (24) 261)

Galanin
Mesencephalic trigeminal nucleus; Neuropeptide Y; Substance P; Vasoactive intestinal polypeptide; Masseteric nerve; Nerve transection (Umemoto, S. (23) 93)

Corticosterone; Arcuate nucleus; Paraventricular nucleus; Dorsal raphe; mRNA (Akabayashi, A. (25) 305)

GAP-43
Rat brain; Immunocytochemistry; mRNA; Axotomy; Facial nucleus (Palacios, G. (24) 107)

Neuritogenesis; mRNA; Protein distribution; Cerebellum; In vitro (Przyborski, S.A. (25) 273)

S-100β; Casein kinase II; Protein kinase C; Phosphorylation; Calcium; Acylation; Neuromodulin (Lin, L.-H. (25) 292)

Haloperidol; Neural cell adhesion molecule; Calmodulin; Gene expression; Neonate; Rat (Castro, R. (26) 74)

Glucocorticoid; Hippocampus; BDNF; Neurotrophin-3; trkB; trkC; Basic fibroblast growth factor (Chao, H.M. (26) 271)

Gastrointestinal system
Choline transporter; Creatine transporter; Choline uptake; Hemicholinium-3; Acetylcholine; Nervous system (Gonzalez, A.M. (23) 266)

Gastrulation
otx homeoprotein; Zebrafish; Brain development; Embryogenesis; Diencephalon; Midbrain (Mori, H. (27) 221)

GATA
Transcription factor; Neural development; Optic tectum (Kornhauser, J.M. (23) 100)

Gene expression
Insulin-like growth factor II; Insulin-like growth factor-binding protein-2; Choroid plexus epithelial cell; Sheep; Secretion; Cerebrospinal fluid; Brain (Holm, N.R. (21) 67)

Autoreceptor; In situ hybridization histochemistry; Locus coeruleus; Noradrenaline (Scheinin, M. (21) 133)

Trophic factor; Hippocampus; Cortex; Fibroblast growth factor; In situ hybridization; Epilepsy (Gall, C.M. (21) 190)

Delivery system; Development; Nerve growth factor; Post-transcriptional regulation; Transgenesis (Onténiente, B. (21) 225)

Fibroblast growth factor receptor; Fibroblast growth factor receptor-4; Rat; Brain; Medial habenular nucleus; Neuron; mRNA (Itoh, N. (21) 344)

Basic fibroblast growth factor; Ischemia; Fibroblast growth factor receptor; *flg*; Hippocampus (Endoh, M. (22) 76)

Tyrosine hydroxylase; Locus coeruleus; Serotonin/norepinephrine interaction; Neurotoxin; 5,6-Dihydroxytryptamine (Sturtz, F. (22) 107)

Dopamine transporter; Dopamine uptake; Transporter regulation; Cocaine (Cerruti, C. (22) 132)

Rat; In situ hybridization; Caudate-putamen; Co-expression; Striatopallidal; Striatal interneuron (Augood, S.J. (22) 204)

Calcium binding protein; Stress protein; Seizure; Ischemia; Trauma (Lowenstein, D.H. (22) 299)

Orphan receptor; Nuclear receptor; Transcription; Hippocampus; Reverse-transcription-PCR (Peña de Ortiz, S. (23) 277)

Adeno-associated virus; Neuropeptide Y; Neuroblastoma (Wu, P. (24) 27)

Kindling; Glutamate receptor; Proenkephalin; Rat (Lee, S. (24) 34)

Cytochrome P450; Sexual differentiation; RNA; Estrogen; Sex hormone; Cloning (Shen, P. (24) 227)

Hexokinase; Rat brain; Aging; In situ hybridization (Cimino, M. (25) 1)

Preprocholecystokinin; In situ hybridization; Brain; Dopamine; MDMA (Wotherspoon, G. (25) 34)

Brain development; Helix-loop-helix; Plasticity; Mouse development (Soosaar, A. (25) 176)

NMDA; mRNA; Hippocampus; Ontogenesis; Glutamate; Neurotoxicity (Riva, M.A. (25) 209)

Gonadotropin-releasing hormone; Neuropeptide Y receptor; In situ hybridization; Prepotic area; Reproduction (Li, S. (26) 69)

Haloperidol; Neural cell adhesion molecule; GAP-43; Calmodulin; Neonate; Rat (Castro, R. (26) 74)

Psychostimulant; Catecholamine re-uptake blocker; c-*fos*; *NGFI-A* (zif268); Striatum; Withdrawal (Ennulat, D.J. (26) 106)

NG108-15 cell; δ-Opioid receptor; mRNA; Solution hybridization; Ethanol; Naloxone (Jenab, S. (27) 95)

Stress; Neuropeptide Y; Hypophysectomy; mRNA level; Adrenal (Hiremagalur, B. (27) 138)

Glucocorticoid receptor; Mineralocorticoid receptor; Aging; Hippocampus; In situ hybridization (Yau, J.L.W. (27) 174)

Initiator element; Thyroid hormone; Glucocorticoid; Retinoic acid; Dendrite spine (Iñiguez, M.A. (27) 205)

Nerve growth factor; Lithium; cAMP; Dexamethasone; Neuropeptide; Neuromedin N (Bullock, B.P. (27) 232)

Gene mapping
Melatonin deficiency; Serotonin *N*-acetyltransferase; Hydroxyindole-*O*-methyltransferase; Recombinant inbred strain; Circadian rhythm (Goto, M. (21) 349)

Gene regulation
Brain-derived neurotrophic factor; Nerve growth factor family; Multiple promoters; Neuron-specific expression; Kainate-induced activation; AP-1 binding site (Nakayama, M. (21) 206)

In situ hybridization; Glutamic acid decarboxylase mRNA; Dopamine D_1 receptor; Dopamine D_2 receptor; NMDA receptor; Dizocilpine MK-801; Fluphenazine-*N*-mustard; EEDQ (Qin, Z.-H. (21) 293)

Stimulant; Dopamine receptor; Enkephalin; Tyrosine hydroxylase; Cholecystokinin; Dopamine transporter; In situ hybridization (De Bartolomeis, A. (21) 321)

In situ hybridization; mRNA; Immunohistochemistry; Serotonin; *p*-Chlorophenylalanine; Tryptophan hydroxylase (Park, D.H. (22) 20)

Tyrosine hydroxylase; Depolarization; Adrenal medulla (Stachowiak, M.K. (22) 309)

Dopamine receptor; NMDA receptor; MK-801; Opioid peptide; Immediate-early gene; Transcription factor; Striatum (Bronstein, D.M. (23) 191)

Human choline acetyltransferase; 5′ Regulatory sequence; Thyroid hormone; CAT assay; NE1-115 cell; NG108-15 cell (Quirin-Stricker, C. (23) 253)

Nerve growth factor; 1,25-Dihydroxyvitamin D_3; Vitamin D receptor; Astrocyte; Cell culture (Neveu, I. (24) 70)

Transgenic mouse; Tyrosine hydroxylase; Human growth hormone; Cell-type specificity; Dwarfism (Banerjee, S.A. (24) 89)

Amyloid precursor protein; DNA methylation; Neurodegeneration (Ledoux, S. (24) 140)

FMRFamide; Neuropeptide (Schinkmann, K. (24) 238)

Neurofilament; Neuronal expression; Transgenic mouse; Intermediate filament (Côté, F. (26) 99)

Cytokine; Hippocampus; Dentate gyrus; Pia; Astrocyte; Acidic fibroblast growth factor; In situ hybridization (Rivera, S. (27) 12)

Neoplasia; Cell biology; RNA; Glioma (Boado, R.J. (27) 51)

Serotonin 5-HT_2 receptor; Transcription; Promoter; Repressor; Transgenic animal; Neuronal cell (Toth, M. (27) 315)

Gene structure
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Cerebellum; Cerebellin; Neurological mutant; Chromosomal location (Kavety, B. (27) 152)

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Nerve growth factor; Gene transfer; Herpes simplex virus type 1 (Geschwind, M.D. (24) 327)

Neuronal transfection; Excitotoxicity (Bahr, B.A. (26) 277)

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Gene transfer
Nerve growth factor; Herpes simplex virus type 1; Gene therapy (Geschwind, M.D. (24) 327)

Liposome; Hemagglutinating virus of Japan; Brain; Central nervous system; Post-mitotic neuron (Kato, K. (25) 359)

Growth-associated protein B-50/GAP-43; Defective herpes simplex vector; Process formation (Verhaagen, J. (26) 26)

Genistein
Basic fibroblast growth factor; Cell proliferation; c-*fos*; Protein kinase C; Oligodendrocyte progenitor (Radhakrishna, M. (24) 118)

Gentamicin
Nicotinic acetylcholine receptor; *Torpedo*; Muscle; *Xenopus* oocyte; Desensitization; Site-directed mutagenesis; cAMP-dependent phosphorylation (Nishizaki, T. (21) 99)

Gerbil
Glucose transporter; Ischemia; Brain; Riboprobe; In situ hybridization (Gerhart, D.Z. (25) 313)

Ischemia; c-*fos*; hsp70; Heat shock; Stress protein; Hippocampus (Ikeda, J. (26) 249)

Glia
Sleep–waking cycle; Glutamine synthetase; Glial fibrillary acidic protein; Corticosterone (Sallanon-Moulin, M. (22) 113)

c-Fos; Glutamate; NGFI-A; Type 1 astrocyte; Optic nerve (Mack, K.J. (23) 73)

Neurotrophin; Tyrosine kinase; Phosphorylation; Glycosylation; Autocrine (Zanellato, A. (23) 299)

Glial acidic fibrillary protein
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Glial cell
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Glial fibrillary acidic protein
Glucocorticoid; In vitro translation; Two-dimensional gel electrophoresis; Cycloheximide; Glutamine synthetase; Glucocortin (O'Banion, M.K. (22) 57)

Sleep–waking cycle; Glia; Glutamine synthetase; Corticosterone (Sallanon-Moulin, M. (22) 113)

Ciliary neurotrophic factor; Astroglia; Immunochemistry (Henderson, J.T. (22) 151)

PC12 cell; Astrocyte; Prion protein; Growth factor; Interleukin-6; mRNA; Mouse (Lazarini, F. (22) 268)

mRNA translocation; MAP2; Neurogranin; RC3; Myelin basic protein; Dendrite; Oligodendrocyte; Reactive astrocyte (Landry, C.F. (27) 1)

Glial fibrillary acidic protein immunocytochemistry
Apolipoprotein E; Cerebellar cortex; Astrocyte; Cholesterol (Lafarga, M. (21) 115)

Glial S100b
Protein F1/GAP43; Protein kinase C; Synaptic plasticity; Alzheimer's disease; Down's syndrome (Sheu, F.-S. (21) 62)

Glioma
Gene regulation; Neoplasia; Cell biology; RNA (Boado, R.J. (27) 51)

Globus pallidus
Nitric oxide synthase; Subthalamic nucleus; Striatum; mRNA; In situ hybridization; Human brain; Co-expression (Nisbet, A.P. (22) 329)

Glossopharyngeal nerve
Calcitonin gene-related peptide mRNA; In situ hybridization histochemistry; Neuronal plasticity; Vagus nerve; Neuropeptide; Rat (Huang, F.-L. (22) 290)

Glucocorticoid
In vitro translation; Two-dimensional gel electrophoresis; Cycloheximide; Glutamine synthetase; Glucocortin; Glial fibrillary acidic protein (O'Banion, M.K. (22) 57)

AP-1; Immediate early gene; Dexamethasone; Fos; Jun (Unlap, T. (24) 275)

Hippocampus; GAP-43; BDNF; Neurotrophin-3; trkB; trkC; Basic fibroblast growth factor (Chao, H.M. (26) 271)

Gene expression; Initiator element; Thyroid hormone; Retinoic acid; Dendrite spine (Iñiguez, M.A. (27) 205)

Vasopressin; Vasoactive intestinal peptide; Corticotrophin-releasing factor; Corticosterone; Dexamethasone; Suprachiasmatic nucleus; Paraventricular nucleus; In situ hybridization histochemistry; Rat (Larsen, P.J. (27) 342)

Glucocorticoid hormone
Growth factor; Neuroendocrinology; Adrenalectomy (Kononen, J. (27) 347)

Glucocorticoid receptor
Neural retina; Müller glia; Glutamine synthetase; Hormonal induction; Embryonic development (Grossman, R. (21) 312)

Mineralocorticoid receptor; Gene expression; Aging; Hippocampus; In situ hybridization (Yau, J.L.W. (27) 174)

Glucocorticoid receptor mRNA
Neonatal handling; Mineralocorticoid receptor mRNA; Hippocampus (O'Donnell, D. (26) 242)

Glucocortin
Glucocorticoid; In vitro translation; Two-dimensional gel electrophoresis; Cycloheximide; Glutamine synthetase; Glial fibrillary acidic protein (O'Banion, M.K. (22) 57)

Glucose transporter
Blood–brain barrier; Actin; RNA; Astrocyte (Boado, R.J. (22) 259)

Ischemia; Brain; Riboprobe; Gerbil; In situ hybridization (Gerhart, D.Z. (25) 313)

mGluR
GluR1–4; NMDAR1; Circadian rhythm; Autoradiography; Biological clock (Gannon, R.L. (23) 338)

GluR1
Zinc; AMPA receptor; GluR3; *Xenopus* oocyte expression system (Dreixler, J.C. (22) 144)

GluR1–4
NMDAR1; mGluR; Circadian rhythm; Autoradiography; Biological clock (Gannon, R.L. (23) 338)

GluR3
Zinc; AMPA receptor; GluR1; *Xenopus* oocyte expression system (Dreixler, J.C. (22) 144)

Glutamate
Dopamine receptor; Dopamine; Hippocampus; Nucleus accumbens; Basal ganglia (Brené, S. (21) 274)

NMDA; MK-801; c-*fos*; c-*jun*; Oncogene; Neuroprotection; Excitoprotection; Neurotoxicity; Excitotoxicity; Cerebellum; Neuron (Weller, M. (22) 227)

c-Fos; Glia; NGFI-A; Type 1 astrocyte; Optic nerve (Mack, K.J. (23) 73)

c-*fos*; Hippocampus; Enkephalin; Immediate early gene; Transcription factor (Johnston, H.M. (25) 147)

NMDA; mRNA; Hippocampus; Ontogenesis; Neurotoxicity; Gene expression (Riva, M.A. (25) 209)

Glutamate-aspartate transporter mRNA
In situ hybridization; Ischemia; Rat; Retina (Otori, Y. (27) 310)

Glutamate decarboxylase
Parkinson's disease; Basal ganglia; Dopamine; MPTP; Monkey (Pedneault, S. (25) 351)

L-Glutamate decarboxylase
Rat; Retina; In situ hybridization; $GABA_A$ receptor $\alpha 1$ subunit; Retinal ganglion cell; Digoxigenin-labeled cRNA (Kosaka, J. (25) 163)

Glutamate dehydrogenase
Astrocyte; Glutamate metabolism; Glutamine synthetase; Hippocampus; Serotonin; Neuron–glia interaction (Hardin, H. (26) 1)

Glutamate metabolism
Astrocyte; Glutamate dehydrogenase; Glutamine synthetase; Hippocampus; Serotonin; Neuron–glia interaction (Hardin, H. (26) 1)

Glutamate receptor
Excitotoxicity; Calcium channel; Fura-2; Calcium; Dopaminergic neuron; Primary culture (De Erausquin, G. (21) 303)

NMDA receptor; [$^{45}Ca^{2+}$]influx; MK-801 binding; Neuroblastoma × glioma hybrid cell; NG 108-15 cell (Ohkuma, S. (22) 166)

Chemical kindling; FG 7142; β-Carboline; $GABA_A$ receptor; Benzodiazepine receptor (Lewin, E. (22) 320)

RNA editing; Rat; Human; AMPA; Brain; Polymerase chain reaction (Cha, J.-H.J. (22) 323)

Kindling; Proenkephalin; Gene expression; Rat (Lee, S. (24) 34)

Glutamate transporter
cDNA; *Xenopus* oocyte; Rat brain; Inhibitor (Tanaka, K. (21) 167)

Glutamic acid decarboxylase
Monoarthritis; Chronic inflammation; Pain; GABA; In situ hybridization; Spinal cord; Rat (Castro-Lopes, J.M. (26) 169)

Glutamic acid decarboxylase mRNA
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Glutamine synthetase
Neural retina; Müller glia; Hormonal induction; Glucocorticoid receptor; Embryonic development (Grossman, R. (21) 312)

Glucocorticoid; In vitro translation; Two-dimensional gel electrophoresis; Cycloheximide; Glucocortin; Glial fibrillary acidic protein (O'Banion, M.K. (22) 57)

Sleep–waking cycle; Glia; Glial fibrillary acidic protein; Corticosterone (Sallanon-Moulin, M. (22) 113)

Astrocyte; Glutamate dehydrogenase; Glutamate metabolism; Hippocampus; Serotonin; Neuron–glia interaction (Hardin, H. (26) 1)

Sleep–waking cycle; Modafinil; Corticosterone (Touret, M. (26) 123)

Glycine receptor
Ligand-gated channel; Neurotransmitter; Phosphorylation; Phorbol ester; Point mutation (Uchiyama, M. (24) 295)

Glycosylation
Neurotrophin; Glia; Tyrosine kinase; Phosphorylation; Autocrine (Zanellato, A. (23) 299)

Glycosyl phosphatidylinositol
Human; Contactin; F3; F11; Cell adhesion; Antibody; cDNA; mRNA expression (Reid, R.A. (21) 1)

Gonadotropin-releasing hormone
Neuropeptide Y receptor; In situ hybridization; Prepotic area; Reproduction; Gene expression (Li, S. (26) 69)

G protein
Clonidine; Yohimbine; Somatostatin receptor; Adenylyl cyclase (López-Sañudo, S. (25) 143)

G_i protein
α Subunit; cDNA library; Molecular cloning; Immunohistochemistry; Affinity-purified antibody; Cochlea; Inner hair cell; Outer hair cell (Tachibana, M. (21) 355)

G_o protein
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G_s protein
Kainate; G_o protein; mRNA; Hippocampus (Lasoń, W. (24) 65)

G protein-coupled receptor
Polymerase chain reaction; Radioligand binding; Mammalian cell expression; In situ hybridization (Meng, F. (26) 143)

G protein expression
In situ hybridization histochemistry; Chronic naltrexone; Chronic selective agonist; Brain region (Rubino, T. (23) 333)

GR 113808
Serotonin 5-HT_4 receptor; Human brain (Doménech, T. (21) 176)

Grain counting
Vasoactive intestinal polypeptide; Hypothyroidism; Adult brain; In situ hybridization (Giardino, L. (27) 87)

Granule cell
Sodium pump isoform; Immunoblotting; Immunocytochemistry; Astrocyte; Rat brain; Monkey brain (Cameron, R. (21) 333)

Antiserum; cDNA expression library; Cerebellum; In situ hybridization; Novel clone; Western blot (Kambouris, M. (25) 183)

cDNA; Cerebellum; Human; Hippocampal formation; In situ hybridization; Mouse; Olfactory bulb; Substantia nigra (Kambouris, M. (25) 192)

Growth-associated protein
mRNA; Cholinergic neuron; Hybridization histochemistry (McKinney, M. (23) 213)

Growth-associated protein B-50 / GAP-43
Defective herpes simplex vector; Gene transfer; Process formation (Verhaagen, J. (26) 26)

Growth factor
PC12 cell; Astrocyte; Prion protein; Glial fibrillary acidic protein; Interleukin-6; mRNA; Mouse (Lazarini, F. (22) 268)

Neuroendocrinology; Glucocorticoid hormone; Adrenalectomy (Kononen, J. (27) 347)

Guinea pig brain
Quantitative receptor autoradiography; Serotonin 5-HT_{1D} binding site; Serotonin non-5-$HT_{1A/1B/1C/1D}$ [^{3}H]5-HT binding site; Human brain (Bruinvels, A.T. (21) 19)

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Haloperidol
Sulpiride; Dopamine receptor; In situ hybridization; Northern blot; Rat brain (Jaber, M. (23) 14)

Neurotensin; c-*fos*; Neuromedin; Neostriatum; AP-1 (Merchant, K.M. (23) 270)

Neural cell adhesion molecule; GAP-43; Calmodulin; Gene expression; Neonate; Rat (Castro, R. (26) 74)

Heart beat stimulation
α_1 Peptide; α_2 Peptide; ProVD1/RPD2-A; ProVD1/RPD2-B; HPLC; Edman degradation; *Lymnaea* (Bogerd, J. (23) 66)

Heat shock
Ischemia; Gerbil; c-*fos*; hsp70; Stress protein; Hippocampus (Ikeda, J. (26) 249)

Helix-loop-helix
Brain development; Gene expression; Plasticity; Mouse development (Soosaar, A. (25) 176)

Hemagglutinating virus of Japan
Liposome; Gene transfer; Brain; Central nervous system; Post-mitotic neuron (Kato, K. (25) 359)

Hemicholinium-3
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Hippocampal–amygdala complex
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Northern blot analysis; In situ hybridization; Nervous system; Cerebellum; Cerebral cortex; Choroid plexus; Caudate-putamen; Development (Zagon, I.S. (21) 85)

Trophic factor; Cortex; Fibroblast growth factor; In situ hybridization; Gene expression; Epilepsy (Gall, C.M. (21) 190)

Seizure; c-*fos*; c-*jun*; NGFI-A; Neuropeptide Y; Enkephalin; Dynorphin; Run-on transcription (Yount, G.L. (21) 219)

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Metabotropic glutamate receptor; Entorhinal cortex; Phosphoinositide-linked receptor; Excitotoxicity (Fotuhi, M. (21) 283)

Basic fibroblast growth factor; Ischemia; Fibroblast growth factor receptor; *flg*; Gene expression (Endoh, M. (22) 76)

Adenylate cyclase; Adrenalectomy; Calmodulin; In situ hybridization; Cortex (Gannon, M.N. (22) 186)

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Orphan receptor; Nuclear receptor; Transcription; Reverse-transcription-PCR; Gene expression (Peña de Ortiz, S. (23) 277)

Neuropeptide Y; Electroconvulsive shock; Limbic cortex; Dentate gyrus; Piriform cortex; Peptide expression; In situ hybridization histochemistry (Mikkelsen, J.D. (23) 317)

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Kainate; G_s protein; G_o protein; mRNA (Lasoń, W. (24) 65)

c-*fos*; Enkephalin; Immediate early gene; Transcription factor; Glutamate (Johnston, H.M. (25) 147)

NMDA; mRNA; Ontogenesis; Glutamate; Neurotoxicity; Gene expression (Riva, M.A. (25) 209)

$GABA_A$ receptor complex; Benzodiazepine binding site, Type I; Zolpidem binding; Subunit specific antibody; Immunoprecipitation; Cortex (Ruano, D. (25) 225)

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Ischemia; Gerbil; c-*fos*; hsp70; Heat shock; Stress protein (Ikeda, J. (26) 249)

Glucocorticoid; GAP-43; BDNF; Neurotrophin-3; trkB; trkC; Basic fibroblast growth factor (Chao, H.M. (26) 271)

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$GABA_A$-benzodiazepine receptor complex; mRNA; Kindled seizure; Carbamazepine; Receptor autoradiography; Contingent tolerance; In situ hybridization (Clark, M. (26) 309)

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Kindling; Thyrotropin-releasing hormone; Enkephalin; Neuropeptide Y; In situ hybridization; mRNA; Neuropeptide; Amygdala; Entorhinal cortex; Pyriform cortex; Perirhinal cortex (Rosen, J.B. (27) 71)

Glucocorticoid receptor; Mineralocorticoid receptor; Gene expression; Aging; In situ hybridization (Yau, J.L.W. (27) 174)

Nitric oxide synthase; Single-cell PCR; Long-term potentiation; Retrograde messenger (Chiang, L.W. (27) 183)

Homophthalazine
Specific binding; 2,3-Benzodiazepine; Autoradiography; Basal ganglia; Anxiolytic drug (Horváth, E.J. (22) 211)

Hormonal induction
Neural retina; Müller glia; Glutamine synthetase; Glucocorticoid receptor; Embryonic development (Grossman, R. (21) 312)

HPLC
α_1 Peptide; α_2 Peptide; ProVD1/RPD2-A; ProVD1/RPD2-B; Edman degradation; Heart beat stimulation; *Lymnaea* (Bogerd, J. (23) 66)

HSP70
Zinc finger protein; KROX-20; Immunocytochemistry; Kainate; Epilepsy (Gass, P. (23) 292)

hsp70
Ischemia; Gerbil; c-*fos*; Heat shock; Stress protein; Hippocampus (Ikeda, J. (26) 249)

Human
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RNA editing; Glutamate receptor; Rat; AMPA; Brain; Polymerase chain reaction (Cha, J.-H.J. (22) 323)

cDNA; Cerebellum; Granule cell; Hippocampal formation; In situ hybridization; Mouse; Olfactory bulb; Substantia nigra (Kambouris, M. (25) 192)

Human brain
Quantitative receptor autoradiography; Serotonin 5-HT_{1D} binding site; Serotonin non-5-$HT_{1A/1B/1C/1D}$ [^{3}H]5-HT binding site; Guinea pig brain (Bruinvels, A.T. (21) 19)

AMPA receptor; Hippocampus; Cortex; Cerebellum; Alzheimer's disease; Epilepsy; In situ hybridization (García-Ladona, F.J. (21) 75)

Serotonin 5-HT_4 receptor; GR 113808 (Doménech, T. (21) 176)

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Cerebral cortex; Cholinergic transmission; Nicotinic acetylcholine receptor; In situ hybridization; Digoxigenin (Wevers, A. (25) 122)

Human choline acetyltransferase
5′ Regulatory sequence; Gene regulation; Thyroid hormone; CAT assay; NE1-115 cell; NG108-15 cell (Quirin-Stricker, C. (23) 253)

Human ciliary neurotrophic factor
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Human foliate papillae
Human circumvallate papillae; Immunohistochemistry; Taste transduction; Confocal laser scanning microscopy (Takami, S. (22) 193)

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Human spinal cord
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Hybridization histochemistry
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6-Hydroxydopamine lesion
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Hypertension
Blood pressure; Dynorphin; Dentate gyrus; In situ hybridization (Wang, J.Q. (23) 345)

Hypoglycemia
Human ciliary neurotrophic factor; Secretion; Immunolocalization; Pyramidal neurons; Neuroprotection (Negro, A. (21) 124)

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Hypothalamic paraventricuar nucleus
c-*fos*; c-*jun*; Immobilization; Pituitary; Adrenal gland; Rat (Senba, E. (24) 283)

Hypothalamo-neurohypophysial system
Tyrosine hydroxylase; Axonal transport of mRNA (Skutella, T. (23) 179)

Hypothalamus
Morphine; Dopamine neuron; Tyrosine hydroxylase mRNA; Preoptic DOPAC; Dialysis (Molnar, J. (22) 97)

Kindling; Seizure; Vasopressin; Neuroendocrine; In situ hybridization; Supraoptic nucleus (Greenwood, R.S. (24) 20)

MK-801; NMDA receptor; c-*fos*; Corticotropin-releasing factor; Rat (Lee, S. (24) 192)

Brain; mRNA; In situ hybridization; Transcription factor; Zinc finger; Leucine zipper (Honkaniemi, J. (25) 234)

Kindling; Seizure; Vasopressin; Neuroendocrine; In situ hybridization; Supraoptic nucleus; Hippocampus; Olfactory bulb (Greenwood, R.S. (26) 286)

Ribonuclease protection assay; Central nervous system; Hippocampal–amygdala complex; Frontal cerebral cortex; Brainstem; Development (Keiger, C.J. (27) 103)

Proopiomelanocortin; β-Endorphin; Androgen; Dihydrotestosterone; Estradiol (Matera, C. (27) 275)

Hypothyroidism
Vasoactive intestinal polypeptide; Adult brain; In situ hybridization; Grain counting (Giardino, L. (27) 87)

trk; p75LNGFR; Low-affinity nerve growth factor receptor; NT-3; Neurotrophin-3; BDNF; Brain-derived nerve factor (Alvarez-Dolado, M. (27) 249)

I

Immediate early gene
Visual cortex; Fos protein; c-*fos*; Visual development; Proto-oncogene (Mower, G.D. (21) 47)

Retinal ganglion cell; Regeneration; Axotomy; Transcription factor; Peripheral nerve grafting (Robinson, G.A. (24) 43)

AP-1; Glucocorticoid; Dexamethasone; Fos; Jun (Unlap, T. (24) 275)

c-*fos*; Hippocampus; Enkephalin; Transcription factor; Glutamate (Johnston, H.M. (25) 147)

Suprachiasmatic nucleus; Circadian rhythm; Biological clock; Serotonin; Brain slice; In situ hybridization (Prosser, R.A. (25) 151)

Skeletal muscle; Acetylcholine receptor; Calcium; Intracellular calcium store; Synaptic transmission (Abu-Shakra, S.R. (26) 55)

ATF1; Calcium; cAMP; Cell body response; CREB1; CREM; Fos protein; Gene transcription; Jun protein; Regeneration (Herdegen, T. (26) 259)

AP-1; Circadian rhythm; Immunohistochemistry; Light (Peters, R.V. (27) 243)

Zebra finch; Canary; c-*jun*; *zif*-268; NGFI-A; Metrazole; Songbird (Nastiuk, K.L. (27) 299)

Immediate-early gene
Activator protein-1; Calcitonin gene-related peptide; Nitric oxide; Nociception; Substance P; Transcription (Herdegen, T. (22) 245)

Dopamine receptor; NMDA receptor; MK-801; Opioid peptide; Transcription factor; Gene regulation; Striatum (Bronstein, D.M. (23) 191)

Immobilization
c-*fos*; c-*jun*; Hypothalamic paraventricuar nucleus; Pituitary; Adrenal gland; Rat (Senba, E. (24) 283)

Immunoautoradiography
Substantia nigra; Tyrosine hydroxylase; Dopamine uptake; mRNA expression (Blanchard, V. (22) 29)

Immunoblotting
Sodium pump isoform; Immunocytochemistry; Granule cell; Astrocyte; Rat brain; Monkey brain (Cameron, R. (21) 333)

Immunochemistry
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Immunocytochemistry
Sodium pump isoform; Immunoblotting; Granule cell; Astrocyte; Rat brain; Monkey brain (Cameron, R. (21) 333)

Rat; Transplantation; Epileptic seizure; Transcription factor; Fos; Jun; Krox (Bele, S. (22) 9)

In situ hybridization; Polymerase chain reaction; Dopamine D_2 receptor mRNA; Culture of striatal and cerebellar astrocytes (Bal, A. (23) 204)

Zinc finger protein; KROX-20; HSP70; Kainate; Epilepsy (Gass, P. (23) 292)

GAP-43; Rat brain; mRNA; Axotomy; Facial nucleus (Palacios, G. (24) 107)

GABA transporter; Distribution; Antibody; Ependyma; Arachnoid (Ikegaki, N. (26) 47)

Subcommissural organ; Secretory glycoprotein; Biochemistry; Dogfish; *Scyliorhinus canicula* (Grondona, J.M. (26) 299)

PNP 14; Phosphoneuroprotein; Brain-specific protein; Neuron-specific protein; In situ hybridization; Axonal transport (Nakajo, S. (27) 81)

Immunodetection
Brain; Interleukin-1 receptor; Neuron; Quantitative autoradiography; RT-PCR (Parnet, P. (27) 63)

Immunoglobulin
Blood–nerve barrier; Blood–brain barrier; Permeability coefficient–surface area product; Residual brain/endoneurial plasma volume; Nerve growth factor (Poduslo, J.F. (23) 157)

Immunohistochemistry
G_i protein; α Subunit; cDNA library; Molecular cloning; Affinity-purified antibody; Cochlea; Inner hair cell; Outer hair cell (Tachibana, M. (21) 355)

In situ hybridization; mRNA; Serotonin; *p*-Chlorophenylalanine; Tryptophan hydroxylase; Gene regulation (Park, D.H. (22) 20)

Human circumvallate papillae; Human foliate papillae; Taste transduction; Confocal laser scanning microscopy (Takami, S. (22) 193)

AP-1; Circadian rhythm; Immediate early gene; Light (Peters, R.V. (27) 243)

NMDA receptor; Nucleus tractus solitarii; Nucleus ambiguus; Pseudorabies virus; In situ hybridization; Esophageal peristalsis (Broussard, D.L. (27) 329)

Immunolocalization
Human ciliary neurotrophic factor; Secretion; Pyramidal neurons; Hypoglycemia; Neuroprotection (Negro, A. (21) 124)

Immunoprecipitation
$GABA_A$ receptor complex; Benzodiazepine binding site, Type I; Zolpidem binding; Subunit specific antibody; Cortex; Hippocampus (Ruano, D. (25) 225)

Impulse activity
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Increased fearfulness
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Inducible hsp70
Inducible hsp70 mRNA; Necrosis; Convulsant agent; Brain (Planas, A.M. (27) 127)

Inducible hsp70 mRNA
Inducible hsp70; Necrosis; Convulsant agent; Brain (Planas, A.M. (27) 127)

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In situ hybridization; Receptor autoradiography; Receptor down-regulation; Xanthine; Neonatal rat (Ådén, U. (23) 354)

Inferior frontal gyrus
Nerve growth factor; Phosphorimage analysis; Densitometry; Northern blotting; Dot blotting; Postmortem interval; mRNA yields (Jetté, N. (25) 242)

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Intercellular adhesion molecule 1; Focal brain ischemia; Stroke; Reperfusion (Wang, X. (26) 61)

Inhibitor
Glutamate transporter; cDNA; *Xenopus* oocyte; Rat brain (Tanaka, K. (21) 167)

Inhibitor-1
Protein phosphatase 1; Central nervous system; Ontogeny; In situ hybridization (Sakagami, H. (25) 7)

Initiator element
Gene expression; Thyroid hormone; Glucocorticoid; Retinoic acid; Dendrite spine (Iñiguez, M.A. (27) 205)

Inner hair cell
G_i protein; α Subunit; cDNA library; Molecular cloning; Immunohistochemistry; Affinity-purified antibody; Cochlea; Outer hair cell (Tachibana, M. (21) 355)

Inositol 1,4,5-trisphosphate
Substance P receptor; Naltrexone; Spinal cord; Inositol 1,4,5-trisphosphate receptor (Igwe, O.J. (21) 263)

Inositol 1,4,5-trisphosphate receptor
Substance P receptor; Naltrexone; Spinal cord; Inositol 1,4,5-trisphosphate (Igwe, O.J. (21) 263)

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Northern blot analysis; Nervous system; Cerebellum; Cerebral cortex; Hippocampus; Choroid plexus; Caudate-putamen; Development (Zagon, I.S. (21) 85)

Transforming growth factor α; Epidermal growth factor; Brain; Cerebral cortex; Hemidecortication; Neostriatum; Ontogeny; Plasticity (Kornblum, H.I. (21) 107)

Neurokinin NK_1 receptor; Retinohypothalamic pathway; Circadian rhythm (Mick, G. (21) 157)

Cholecystokinin mRNA; Morphine tolerance; Amygdaloid complex (Pu, S. (21) 183)

Trophic factor; Hippocampus; Cortex; Fibroblast growth factor; Gene expression; Epilepsy (Gall, C.M. (21) 190)

Vasopressin; c-*fos*; mRNA; Dehydration; Cycloheximide (Ding, J.M. (21) 247)

Glutamic acid decarboxylase mRNA; Dopamine D_1 receptor; Dopamine D_2 receptor; NMDA receptor; Dizocilpine MK-801; Fluphenazine-*N*-mustard; EEDQ; Gene regulation (Qin, Z.-H. (21) 293)

Stimulant; Gene regulation; Dopamine receptor; Enkephalin; Tyrosine hydroxylase; Cholecystokinin; Dopamine transporter (De Bartolomeis, A. (21) 321)

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mRNA; Immunohistochemistry; Serotonin; *p*-Chlorophenylalanine; Tryptophan hydroxylase; Gene regulation (Park, D.H. (22) 20)

α_2 Adrenoceptor; Subtype; Northern blot; Presynaptic receptor; Sympathetic (Vidovic, M. (22) 49)

Protein phosphatase 2A; mRNA; Brain; Rat (Abe, H. (22) 139)

Adenylate cyclase; Adrenalectomy; Calmodulin; Hippocampus; Cortex (Gannon, M.N. (22) 186)

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Nitric oxide synthase; Subthalamic nucleus; Striatum; Globus pallidus; mRNA; Human brain; Co-expression (Nisbet, A.P. (22) 329)

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Haloperidol; Sulpiride; Dopamine receptor; Northern blot; Rat brain (Jaber, M. (23) 14)

Calpain; Calpastatin; mRNA; Brain (Goto, K. (23) 40)

mRNA; Choline acetyltransferase; Aging; Alzheimer's disease; Neurodegeneration (Sugaya, K. (23) 111)

Interleukin-1β; Middle cerebral artery occlusion; Brain ischemia; mRNA (Buttini, M. (23) 126)

Oligonucleotide; Serotonin receptor; mRNA; Rat brain (Pompeiano, M. (23) 163)

Polymerase chain reaction; Immunocytochemistry; Dopamine D_2 receptor mRNA; Culture of striatal and cerebellar astrocytes (Bal, A. (23) 204)

Ion channel; Non-isotope; Sodium channel (Black, J.A. (23) 235)

$GABA_A$ receptor subunit; Kindling; Hippocampus; Dentate gyrus; Epilepsy (Kokaia, M. (23) 323)

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Mineralocorticoid receptor; NGFI-B; Nerve growth factor; *krox24*; *zif268* (Olsson, T. (23) 349)

Infarction; Receptor autoradiography; Receptor down-regulation; Xanthine; Neonatal rat (Ådén, U. (23) 354)

Vasopressin; mRNA; Vasopressin V_{1a} receptor (Szot, P. (24) 1)

Northern blot; Cerebellum; Angiogenesis (Mendis, D.B. (24) 11)

Kindling; Seizure; Vasopressin; Neuroendocrine; Hypothalamus; Supraoptic nucleus (Greenwood, R.S. (24) 20)

GABA receptor; Benzodiazepine receptor; Antibody; Rat brain; Ethanol; γ_2 Subunit (Miralles, C.P. (24) 129)

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μ Opioid receptor; Vagal preganglionic neuron; Vagotomy; Rat (Houtani, T. (24) 347)

Hexokinase; Gene expression; Rat brain; Aging (Cimino, M. (25) 1)

Protein phosphatase 1; Inhibitor-1; Central nervous system; Ontogeny (Sakagami, H. (25) 7)

Preprocholecystokinin; Gene expression; Brain; Dopamine; MDMA (Wotherspoon, G. (25) 34)

Motoneuron; Pro-opiomelanocortin; β-Endorphin; α-Melanotropin; Neuropeptide (Hughes, S. (25) 41)

DARPP-32; Ontogeny; Rat brain (Sakagami, H. (25) 67)

14-3-3 Protein; ζ Subtype; θ Subtype; cDNA cloning; Brain; Development; Rat (Watanabe, M. (25) 113)

Cerebral cortex; Cholinergic transmission; Nicotinic acetylcholine receptor; Digoxigenin; Human brain (Wevers, A. (25) 122)

Suprachiasmatic nucleus; Circadian rhythm; Biological clock; Serotonin; Immediate early gene; Brain slice (Prosser, R.A. (25) 151)

Rat; Retina; $GABA_A$ receptor α1 subunit; L-Glutamate decarboxylase; Retinal ganglion cell; Digoxigenin-labeled cRNA (Kosaka, J. (25) 163)

Antiserum; cDNA expression library; Cerebellum; Granule cell; Novel clone; Western blot (Kambouris, M. (25) 183)

cDNA; Cerebellum; Granule cell; Human; Hippocampal formation; Mouse; Olfactory bulb; Substantia nigra (Kambouris, M. (25) 192)

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cDNA cloning; Long-term potentiation; Kainate; Dipeptidyl peptidase IV (De Lecea, L. (25) 286)

Glucose transporter; Ischemia; Brain; Riboprobe; Gerbil (Gerhart, D.Z. (25) 313)

Dopamine D_1 receptor; Dopamine D_2 receptor; Striatum; 6-Hydroxydopamine lesion; In vitro receptor autoradiography (Jongen-Rêlo, A.L. (25) 333)

Gonadotropin-releasing hormone; Neuropeptide Y receptor; Prepotic area; Reproduction; Gene expression (Li, S. (26) 69)

Transient forebrain ischemia; Interleukin-1β; Rat (Yabuuchi, K. (26) 135)

G protein-coupled receptor; Polymerase chain reaction; Radioligand binding; Mammalian cell expression (Meng, F. (26) 143)

Glutamic acid decarboxylase; Monoarthritis; Chronic inflammation; Pain; GABA; Spinal cord; Rat (Castro-Lopes, J.M. (26) 169)

Kindling; Seizure; Vasopressin; Neuroendocrine; Hypothalamus; Supraoptic nucleus; Hippocampus; Olfactory bulb (Greenwood, R.S. (26) 286)

$GABA_A$-benzodiazepine receptor complex; mRNA; Kindled seizure; Hippocampus; Carbamazepine; Receptor autoradiography; Contingent tolerance (Clark, M. (26) 309)

Neurotrophic factor; Pilocarpine; Seizure; Striatum; Dopaminergic system; Hippocampus; Cortex (Schmidt-Kastner, R. (26) 325)

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Cytokine; Hippocampus; Dentate gyrus; Pia; Astrocyte; Gene regulation; Acidic fibroblast growth factor (Rivera, S. (27) 12)

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PNP 14; Phosphoneuroprotein; Brain-specific protein; Neuron-specific protein; Immunocytochemistry; Axonal transport (Nakajo, S. (27) 81)

Vasoactive intestinal polypeptide; Hypothyroidism; Adult brain; Grain counting (Giardino, L. (27) 87)

NMDA; Opioid; Cortex; *zif*-268; c-*fos*; Oncogene; Excitatory amino acid (Wang, J.Q. (27) 118)

Glucocorticoid receptor; Mineralocorticoid receptor; Gene expression; Aging; Hippocampus (Yau, J.L.W. (27) 174)

mRNA; Blood pressure; Brain; Stress; Opioid (Boone Jr., J.B. (27) 290)

Glutamate-aspartate transporter mRNA; Ischemia; Rat; Retina (Otori, Y. (27) 310)

NMDA receptor; Nucleus tractus solitarii; Nucleus ambiguus; Pseudorabies virus; Immunohistochemistry; Esophageal peristalsis (Broussard, D.L. (27) 329)

In situ hybridization histochemistry
Autoreceptor; Gene expression; Locus coeruleus; Noradrenaline (Scheinin, M. (21) 133)

Calcitonin gene-related peptide mRNA; Neuronal plasticity; Vagus nerve; Glossopharyngeal nerve; Neuropeptide; Rat (Huang, F.-L. (22) 290)

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Neuropeptide Y; Electroconvulsive shock; Limbic cortex; Hippocampus; Dentate gyrus; Piriform cortex; Peptide expression (Mikkelsen, J.D. (23) 317)

G protein expression; Chronic naltrexone; Chronic selective agonist; Brain region (Rubino, T. (23) 333)

Paraventricular nucleus; Ethanol; Transcription factor; Thyrotropin-releasing hormone; Corticotropin-releasing hormone (Zoeller, R.T. (24) 185)

$GABA_A$ receptor subunit; mRNA expression; Locus coeruleus (Luque, J.M. (24) 219)

Excitotoxicity; Limbic seizure; Neurotrophin (Rocamora, N. (26) 89)

Vasopressin; Vasoactive intestinal peptide; Corticotrophin-releasing factor; Glucocorticoid; Corticosterone; Dexamethasone; Suprachiasmatic nucleus; Paraventricular nucleus; Rat (Larsen, P.J. (27) 342)

Insulin-like growth factor-binding protein-2
Insulin-like growth factor II; Choroid plexus epithelial cell; Sheep; Gene expression; Secretion; Cerebrospinal fluid; Brain (Holm, N.R. (21) 67)

Insulin-like growth factor II
Insulin-like growth factor-binding protein-2; Choroid plexus epithelial cell; Sheep; Gene expression; Secretion; Cerebrospinal fluid; Brain (Holm, N.R. (21) 67)

Intercellular adhesion molecule 1
Focal brain ischemia; Stroke; Reperfusion; Inflammation (Wang, X. (26) 61)

Interleukin-1
Interleukin-6; Tumor necrosis factor; Lipopolysaccharide; Brain; Pituitary; Semi-quantitative RT-PCR; Sickness behavior (Layé, S. (27) 157)

Interleukin-1β
Middle cerebral artery occlusion; Brain ischemia; mRNA; In situ hybridization (Buttini, M. (23) 126)

Transient forebrain ischemia; In situ hybridization; Rat (Yabuuchi, K. (26) 135)

Interleukin-1 receptor
Neuron-specific enolase; Double in situ hybridization; Rat (Yabuuchi, K. (27) 27)

Brain; Neuron; Quantitative autoradiography; RT-PCR; Immunodetection (Parnet, P. (27) 63)

Interleukin-6
PC12 cell; Astrocyte; Prion protein; Glial fibrillary acidic protein; Growth factor; mRNA; Mouse (Lazarini, F. (22) 268)

Interleukin-1; Tumor necrosis factor; Lipopolysaccharide; Brain; Pituitary; Semi-quantitative RT-PCR; Sickness behavior (Layé, S. (27) 157)

Intermediate filament
Neurofilament; Neuronal expression; Gene regulation; Transgenic mouse (Côté, F. (26) 99)

Intracellular calcium store
Skeletal muscle; Immediate early gene; Acetylcholine receptor; Calcium; Synaptic transmission (Abu-Shakra, S.R. (26) 55)

In vitro
GAP-43; Neuritogenesis; mRNA; Protein distribution; Cerebellum (Przyborski, S.A. (25) 273)

In vitro receptor autoradiography
Dopamine D_1 receptor; Dopamine D_2 receptor; Striatum; 6-Hydroxydopamine lesion; In situ hybridization (Jongen-Rêlo, A.L. (25) 333)

In vitro translation
Glucocorticoid; Two-dimensional gel electrophoresis; Cycloheximide; Glutamine synthetase; Glucocortin; Glial fibrillary acidic protein (O'Banion, M.K. (22) 57)

In vivo
Dopamine β-hydroxylase; Adrenal gland; Neural regulation (Wong, D.L. (25) 57)

Ion channel
In situ hybridization; Non-isotope; Sodium channel (Black, J.A. (23) 235)

Maxi-K channel; BK channel; Cloning; *hSlo* (Dworetzky, S.I. (27) 189)

Ischemia
Basic fibroblast growth factor; Fibroblast growth factor receptor; *flg*; Hippocampus; Gene expression (Endoh, M. (22) 76)

Calcium binding protein; Stress protein; Seizure; Trauma; Gene expression (Lowenstein, D.H. (22) 299)

Glucose transporter; Brain; Riboprobe; Gerbil; In situ hybridization (Gerhart, D.Z. (25) 313)

cDNA cloning; Phospholipase A_2; Rat brain (Owada, Y. (25) 364)

Gerbil; c-*fos*; hsp70; Heat shock; Stress protein; Hippocampus (Ikeda, J. (26) 249)

Glutamate-aspartate transporter mRNA; In situ hybridization; Rat; Retina (Otori, Y. (27) 310)

Isoform
Somatostatin receptor 2; SSTR2; C-terminus; Alternative splicing desensitization; Distribution (Vanetti, M. (27) 45)

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Jun
Rat; Transplantation; Immunocytochemistry; Epileptic seizure; Transcription factor; Fos; Krox (Bele, S. (22) 9)

AP-1; Immediate early gene; Glucocorticoid; Dexamethasone; Fos (Unlap, T. (24) 275)

Brain damage; Programmed cell death; Fos; Krox; Brain-derived neurotrophic factor (Dragunow, M. (25) 19)

c-Jun
Antipsychotic; Fos; Fos-related antigen; FosB; JunB; JunD; Krox24; Tardive dyskinesia; Drug screening (MacGibbon, G.A. (23) 21)

JunB
Antipsychotic; Fos; Fos-related antigen; FosB; c-Jun; JunD; Krox24; Tardive dyskinesia; Drug screening (MacGibbon, G.A. (23) 21)

JunD
Antipsychotic; Fos; Fos-related antigen; FosB; c-Jun; JunB; Krox24; Tardive dyskinesia; Drug screening (MacGibbon, G.A. (23) 21)

Jun protein
ATF1; Calcium; cAMP; Cell body response; CREB1; CREM; Fos protein; Gene transcription; Immediate early gene; Regeneration (Herdegen, T. (26) 259)

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Kainate
Zinc finger protein; KROX-20; HSP70; Immunocytochemistry; Epilepsy (Gass, P. (23) 292)

G_s protein; G_o protein; mRNA; Hippocampus (Lasoń, W. (24) 65)

cDNA cloning; In situ hybridization; Long-term potentiation; Dipeptidyl peptidase IV (De Lecea, L. (25) 286)

Kainate-induced activation
Brain-derived neurotrophic factor; Nerve growth factor family; Multiple promoters; Gene regulation; Neuron-specific expression; AP-1 binding site (Nakayama, M. (21) 206)

Kindled seizure
$GABA_A$-benzodiazepine receptor complex; mRNA; Hippocampus; Carbamazepine; Receptor autoradiography; Contingent tolerance; In situ hybridization (Clark, M. (26) 309)

Kindling
In situ hybridization; $GABA_A$ receptor subunit; Hippocampus; Dentate gyrus; Epilepsy (Kokaia, M. (23) 323)

Seizure; Vasopressin; Neuroendocrine; In situ hybridization; Hypothalamus; Supraoptic nucleus (Greenwood, R.S. (24) 20)

Glutamate receptor; Proenkephalin; Gene expression; Rat (Lee, S. (24) 34)

Pilocarpine; Transcription factor; Proto-oncogene; Learning; Memory; Long-term potentiation (Hughes, P. (24) 166)

Seizure; Vasopressin; Neuroendocrine; In situ hybridization; Hypothalamus; Supraoptic nucleus; Hippocampus; Olfactory bulb (Greenwood, R.S. (26) 286)

Thyrotropin-releasing hormone; Enkephalin; Neuropeptide Y; In situ hybridization; mRNA; Neuropeptide; Amygdala; Hippocampus; Entorhinal cortex; Pyriform cortex; Perirhinal cortex (Rosen, J.B. (27) 71)

Krox
Rat; Transplantation; Immunocytochemistry; Epileptic seizure; Transcription factor; Fos; Jun (Bele, S. (22) 9)

Brain damage; Programmed cell death; Fos; Jun; Brain-derived neurotrophic factor (Dragunow, M. (25) 19)

KROX-20
Zinc finger protein; HSP70; Immunocytochemistry; Kainate; Epilepsy (Gass, P. (23) 292)

Krox24
Antipsychotic; Fos; Fos-related antigen; FosB; c-Jun; JunB; JunD; Tardive dyskinesia; Drug screening (MacGibbon, G.A. (23) 21)

krox24
Mineralocorticoid receptor; NGFI-B; Nerve growth factor; *zif268*; In situ hybridization (Olsson, T. (23) 349)

L

Lactation
NMDA receptor gene expression; Cortical activation; c-*fos* expression; Brainstem activation; Locus coeruleus; Dorsal raphe (Abbud, R. (25) 323)

Learning
Pilocarpine; Transcription factor; Proto-oncogene; Memory; Long-term potentiation; Kindling (Hughes, P. (24) 166)

Leucine zipper
Hypothalamus; Brain; mRNA; In situ hybridization; Transcription factor; Zinc finger (Honkaniemi, J. (25) 234)

Ligand-gated channel
Glycine receptor; Neurotransmitter; Phosphorylation; Phorbol ester; Point mutation (Uchiyama, M. (24) 295)

Ligand-gated ion channel
Serotonin; Receptor; Gene structure; Alternative splicing; Mouse (Werner, P. (26) 233)

Light
AP-1; Circadian rhythm; Immediate early gene; Immunohistochemistry (Peters, R.V. (27) 243)

Light aversion
Fyn kinase-deficient mouse; Increased fearfulness; Emotionality; Novelty preference; Passive avoidance; Mutant mouse; Polymerase chain reaction (Miyakawa, T. (27) 179)

Limbic cortex
Neuropeptide Y; Electroconvulsive shock; Hippocampus; Dentate gyrus; Piriform cortex; Peptide expression; In situ hybridization histochemistry (Mikkelsen, J.D. (23) 317)

Limbic seizure
Excitotoxicity; Neurotrophin; In situ hybridization histochemistry (Rocamora, N. (26) 89)

Lipopolysaccharide
Interleukin-1; Interleukin-6; Tumor necrosis factor; Brain; Pituitary; Semiquantitative RT-PCR; Sickness behavior (Layé, S. (27) 157)

Liposome
Hemagglutinating virus of Japan; Gene transfer; Brain; Central nervous system; Post-mitotic neuron (Kato, K. (25) 359)

Lithium
c-*fos*; c-*jun*; *jun-B*; *jun-D*; Epilepsy; Cholinergic stimulation (Williams, M.B. (25) 80)

Nerve growth factor; cAMP; Dexamethasone; Gene expression; Neuropeptide; Neuromedin N (Bullock, B.P. (27) 232)

LNGFR
Microglia; Astrocyte; Schwann cell; Neurodegenerative lesion; Neurotrophin; Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin 3 (Junier, M.P. (24) 247)

p75LNGFR
trk; Low-affinity nerve growth factor receptor; NT-3; Neurotrophin-3; BDNF; Brain-derived nerve factor; Hypothyroidism (Alvarez-Dolado, M. (27) 249)

Locus ceruleus
Tricyclic antidepressant; Desipramine; Clonidine; Norepinephrine transporter; α_2-Adrenoreceptor; Yohimbine (Shores, M.M. (27) 337)

Locus coeruleus
Autoreceptor; Gene expression; In situ hybridization histochemistry; Noradrenaline (Scheinin, M. (21) 133)

Tyrosine hydroxylase;
Serotonin/norepinephrine interaction; Neurotoxin; 5,6-Dihydroxytryptamine; Gene expression (Sturtz, F. (22) 107)

$GABA_A$ receptor subunit; mRNA expression; In situ hybridization histochemistry (Luque, J.M. (24) 219)

NMDA receptor gene expression; Cortical activation; Lactation; c-*fos* expression; Brainstem activation; Dorsal raphe (Abbud, R. (25) 323)

Long-term potentiation
Pilocarpine; Transcription factor; Proto-oncogene; Learning; Memory; Kindling (Hughes, P. (24) 166)

cDNA cloning; In situ hybridization;
Kainate; Dipeptidyl peptidase IV (De Lecea, L. (25) 286)

Nitric oxide synthase; Single-cell PCR; Hippocampus; Retrograde messenger (Chiang, L.W. (27) 183)

Low-affinity nerve growth factor receptor
trk; p75LNGFR; NT-3; Neurotrophin-3; BDNF; Brain-derived nerve factor; Hypothyroidism (Alvarez-Dolado, M. (27) 249)

LSD
DOI; Affinity state; Compartment; Serotonin 5-HT_2 receptor; Autoradiography (Waeber, C. (24) 199)

Luciferase
B-50/GAP-43; Transcription initiation site; Transient transfection; Promoter activity; PC12 cell; P19-EC cell (Eggen, B.J.L. (23) 221)

Lymnaea
α_1 Peptide; α_2 Peptide; ProVD1/RPD2-A; ProVD1/RPD2-B; HPLC; Edman degradation; Heart beat stimulation (Bogerd, J. (23) 66)

Lymnaea stagnalis
Myo-modulatory peptide; Direct mass spectrometry of nervous tissue; Edman degradation; Reproductive behavior; Mollusc (Li, K.W. (25) 355)

Lysate RNase protection assay
Calretinin mRNA; Rat brain; Calcium appetite; Substantia nigra; Ventral tegmental area; Tyrosine hydroxylase mRNA (Strauss, K.I. (25) 140)

M

Mammalian cell expression
G protein-coupled receptor; Polymerase chain reaction; Radioligand binding; In situ hybridization (Meng, F. (26) 143)

MAP2
Cytoskeleton; Microtubule; Alternative splicing (Kindler, S. (26) 218)

mRNA translocation; Neurogranin; RC3; Glial fibrillary acidic protein; Myelin basic protein; Dendrite; Oligodendrocyte; Reactive astrocyte (Landry, C.F. (27) 1)

Masseteric nerve
Mesencephalic trigeminal nucleus; Neuropeptide Y; Substance P; Galanin; Vasoactive intestinal polypeptide; Nerve transection (Umemoto, S. (23) 93)

Maxi-K channel
Ion channel; BK channel; Cloning; *hSlo* (Dworetzky, S.I. (27) 189)

MDMA
Preprocholecystokinin; In situ hybridization; Gene expression; Brain; Dopamine (Wotherspoon, G. (25) 34)

Medial habenular nucleus
Fibroblast growth factor receptor; Fibroblast growth factor receptor-4; Rat; Brain; Neuron; mRNA; Gene expression (Itoh, N. (21) 344)

Mediobasal hypothalamus
POMC mRNA; Quantitative in situ hybridization; Acute immobilization stress (Baubet, V. (26) 163)

α-Melanotropin
Motoneuron; Pro-opiomelanocortin; In situ hybridization; β-Endorphin; Neuropeptide (Hughes, S. (25) 41)

Melatonin
RNA synthesis; Retinoblastoma; Camptothecin; Actinomycin D; *N*-Acetyltransferase; cAMP (Janavs, J.L. (23) 47)

Melatonin deficiency
Serotonin *N*-acetyltransferase; Hydroxyindole-*O*-methyltransferase; Recombinant inbred strain; Gene mapping; Circadian rhythm (Goto, M. (21) 349)

Membrane fluidity
Ethanol; Alcohol; Alcoholism; Calmodulin; Synaptic plasma membrane (Iqbal, Z. (27) 333)

Memory
Pilocarpine; Transcription factor; Proto-oncogene; Learning; Long-term potentiation; Kindling (Hughes, P. (24) 166)

Mesencephalic trigeminal nucleus
Neuropeptide Y; Substance P; Galanin; Vasoactive intestinal polypeptide; Masseteric nerve; Nerve transection (Umemoto, S. (23) 93)

Metabotropic glutamate receptor
Hippocampus; Entorhinal cortex; Phosphoinositide-linked receptor; Excitotoxicity (Fotuhi, M. (21) 283)

Met-enkephalin
Proenkephalin; Brain; In situ hybridization; Blood pressure regulation; mRNA (Boone Jr., J.B. (24) 320)

Metrazole
Immediate early gene; Zebra finch; Canary; c-*jun*; *zif*-268; NGFI-A; Songbird (Nastiuk, K.L. (27) 299)

Microglia
Astrocyte; Schwann cell; Neurodegenerative lesion; Neurotrophin; LNGFR; Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin 3 (Junier, M.P. (24) 247)

Microtubule
Cytoskeleton; Alternative splicing; MAP2 (Kindler, S. (26) 218)

Midbrain
otx homeoprotein; Zebrafish; Brain development; Embryogenesis; Gastrulation; Diencephalon (Mori, H. (27) 221)

Middle cerebral artery occlusion
Interleukin-1β; Brain ischemia; mRNA; In situ hybridization (Buttini, M. (23) 126)

Mineralocorticoid receptor
NGFI-B; Nerve growth factor; *krox24*; *zif268*; In situ hybridization (Olsson, T. (23) 349)

Glucocorticoid receptor; Gene expression; Aging; Hippocampus; In situ hybridization (Yau, J.L.W. (27) 174)

Mineralocorticoid receptor mRNA
Neonatal handling; Glucocorticoid receptor mRNA; Hippocampus (O'Donnell, D. (26) 242)

MK-801
Glutamate; NMDA; c-*fos*; c-*jun*; Oncogene; Neuroprotection; Excitoprotection; Neurotoxicity; Excitotoxicity; Cerebellum; Neuron (Weller, M. (22) 227)

Dopamine receptor; NMDA receptor; Opioid peptide; Immediate-early gene; Transcription factor; Gene regulation; Striatum (Bronstein, D.M. (23) 191)

NMDA receptor; c-*fos*; Corticotropin-releasing factor; Hypothalamus; Rat (Lee, S. (24) 192)

MK-801 binding
Glutamate receptor; NMDA receptor; [$^{45}Ca^{2+}$]influx; Neuroblastoma × glioma hybrid cell; NG 108-15 cell (Ohkuma, S. (22) 166)

Modafinil
Sleep–waking cycle; Glutamine synthetase; Corticosterone (Touret, M. (26) 123)

Molecular cloning
G_i protein; α Subunit; cDNA library; Immunohistochemistry; Affinity-purified antibody; Cochlea; Inner hair cell; Outer hair cell (Tachibana, M. (21) 355)

Molecular diversity
Tau; Alternative splicing; Carboxyl terminus; Retained clone; Spliced clone (Sawa, A. (27) 111)

Molecular dynamics
Dopamine; Transporter; Cocaine; Three-dimensional structure; Molecular modeling; Electrostatic potential (Edvardsen, Ø. (27) 265)

Molecular modeling
Dopamine; Transporter; Cocaine; Three-dimensional structure; Molecular dynamics; Electrostatic potential (Edvardsen, Ø. (27) 265)

Mollusc
Myo-modulatory peptide; Direct mass spectrometry of nervous tissue; Edman degradation; Reproductive behavior; *Lymnaea stagnalis* (Li, K.W. (25) 355)

Monkey
Glutamate decarboxylase; Parkinson's disease; Basal ganglia; Dopamine; MPTP (Pedneault, S. (25) 351)

Monkey brain
Sodium pump isoform; Immunoblotting; Immunocytochemistry; Granule cell; Astrocyte; Rat brain (Cameron, R. (21) 333)

Monoamine transporter
Synaptic vesicle; Dihydrotetrahydrobenazine; Reserpine; Serotonin; Dopamine; Norepinephrine; Epinephrine (Gonzalez, A.M. (22) 219)

Monoarthritis
Glutamic acid decarboxylase; Chronic inflammation; Pain; GABA; In situ hybridization; Spinal cord; Rat (Castro-Lopes, J.M. (26) 169)

Morphine
Single-stranded DNA; cAMP response element; DNA binding protein; Mouse cerebellum; Chronic treatment (Osugi, T. (21) 256)

Dopamine neuron; Hypothalamus; Tyrosine hydroxylase mRNA; Preoptic DOPAC; Dialysis (Molnar, J. (22) 97)

Morphine tolerance
Cholecystokinin mRNA; Amygdaloid complex; In situ hybridization (Pu, S. (21) 183)

Motoneuron
In situ hybridization; Regeneration; Vinblastine; mRNA (Kobayashi, N. (21) 9)

Pro-opiomelanocortin; In situ hybridization; β-Endorphin; α-Melanotropin; Neuropeptide (Hughes, S. (25) 41)

Motor neuron
Sodium channel; Sodium channel type I; Sodium channel type II; Sodium channel type III; Brain; Facial nucleus; Nerve transection; In situ hybridization (Iwahashi, Y. (22) 341)

Mouse
PC12 cell; Astrocyte; Prion protein; Glial fibrillary acidic protein; Growth factor; Interleukin-6; mRNA (Lazarini, F. (22) 268)

Vomeronasal organ; Septal organ; Olfactory receptor; Olfactory marker protein; Digoxigenin (Kishimoto, J. (23) 33)

cDNA; Cerebellum; Granule cell; Human; Hippocampal formation; In situ hybridization; Olfactory bulb; Substantia nigra (Kambouris, M. (25) 192)

Serotonin; Receptor; Ligand-gated ion channel; Gene structure; Alternative splicing (Werner, P. (26) 233)

Mouse cerebellum
Single-stranded DNA; cAMP response element; DNA binding protein; Morphine; Chronic treatment (Osugi, T. (21) 256)

Mouse development
Brain development; Helix-loop-helix; Gene expression; Plasticity (Soosaar, A. (25) 176)

Mouse mutant
Anorexia; Hyperinnervation; Serotonergic stimulation; Dysfunctional behavior (Son, J.H. (25) 129)

mp41
Circadian rhythm; Suprachiasmatic nucleus; c-*fos* (Ishida, N. (26) 197)

MPP^+ toxicity
hSVAT; Amine transporter; MPTP (Liu, L. (25) 90)

MPTP
MPP^+ toxicity; hSVAT; Amine transporter (Liu, L. (25) 90)

Glutamate decarboxylase; Parkinson's disease; Basal ganglia; Dopamine; Monkey (Pedneault, S. (25) 351)

Müller glia
Neural retina; Glutamine synthetase; Hormonal induction; Glucocorticoid receptor; Embryonic development (Grossman, R. (21) 312)

Multiple promoters
Brain-derived neurotrophic factor; Nerve growth factor family; Gene regulation; Neuron-specific expression; Kainate-induced activation; AP-1 binding site (Nakayama, M. (21) 206)

Muscarinic autoreceptor
Muscarinic receptor subtype; Cholinergic cell; Choline acetyltransferase; In situ hybridization; Oligonucleotide; Acetylcholine release; Rat brain (Vilaró, M.T. (21) 30)

Muscarinic receptor subtype
Muscarinic autoreceptor; Cholinergic cell; Choline acetyltransferase; In situ hybridization; Oligonucleotide; Acetylcholine release; Rat brain (Vilaró, M.T. (21) 30)

Muscle
Nicotinic acetylcholine receptor; *Torpedo*; *Xenopus* oocyte; Desensitization; Site-directed mutagenesis; cAMP-dependent phosphorylation; Gentamicin (Nishizaki, T. (21) 99)

Mutant mouse
Fyn kinase-deficient mouse; Increased fearfulness; Emotionality; Novelty preference; Light aversion; Passive avoidance; Polymerase chain reaction (Miyakawa, T. (27) 179)

Myelin basic protein
mRNA translocation; MAP2; Neurogranin; RC3; Glial fibrillary acidic protein; Dendrite; Oligodendrocyte; Reactive astrocyte (Landry, C.F. (27) 1)

Myo-modulatory peptide
Direct mass spectrometry of nervous tissue; Edman degradation; Reproductive behavior; Mollusc; *Lymnaea stagnalis* (Li, K.W. (25) 355)

Myosin light chain kinase
Calmodulin; Biotinylated calmodulin; Translocation; Basal ganglia; Supersensitivity; Amphetamine; Antipsychotic drug (Gnegy, M.E. (27) 195)

N

Na-dependent
L-Carnitine; GABA; Acetyl-L-carnitine; Carrier-mediated transport; Energy-dependent; Cultured cortical cell (Virmani, M.A. (25) 105)

Naloxone
Opioid receptor; *Xenopus* oocyte; mRNA; Ca^{2+}-dependent Cl^- channel; DPDPE (Kaneko, S. (22) 69)

NG108-15 cell; δ-Opioid receptor; mRNA; Solution hybridization; Ethanol; Gene expression (Jenab, S. (27) 95)

Naltrexone
Substance P receptor; Spinal cord; Inositol 1,4,5-trisphosphate; Inositol 1,4,5-trisphosphate receptor (Igwe, O.J. (21) 263)

NE1-115 cell
Human choline acetyltransferase; 5′ Regulatory sequence; Gene regulation; Thyroid hormone; CAT assay; NG108-15 cell (Quirin-Stricker, C. (23) 253)

Necrosis
Inducible hsp70 mRNA; Inducible hsp70; Convulsant agent; Brain (Planas, A.M. (27) 127)

Neonatal handling
Glucocorticoid receptor mRNA; Mineralocorticoid receptor mRNA; Hippocampus (O'Donnell, D. (26) 242)

Neonatal rat
Infarction; In situ hybridization; Receptor autoradiography; Receptor down-regulation; Xanthine (Ådén, U. (23) 354)

Neonate
Haloperidol; Neural cell adhesion molecule; GAP-43; Calmodulin; Gene expression; Rat (Castro, R. (26) 74)

Neoplasia
Gene regulation; Cell biology; RNA; Glioma (Boado, R.J. (27) 51)

Neostriatum
Transforming growth factor α; Epidermal growth factor; Brain; Cerebral cortex; Hemidecortication; Ontogeny; Plasticity; In situ hybridization (Kornblum, H.I. (21) 107)

Neurotensin; c-*fos*; Neuromedin; Haloperidol; AP-1 (Merchant, K.M. (23) 270)

Nerve growth factor
Brain-derived neurotrophic factor; Calcitonin gene-related peptide; Diabetes mellitus; Diabetic neuropathy; Substance P (Diemel, L.T. (21) 171)

Delivery system; Development; Gene expression; Post-transcriptional regulation; Transgenesis (Onténiente, B. (21) 225)

Basic fibroblast growth factor mRNA; Acidic fibroblast growth factor; *trk* A; Rat; RNase protection assay (Follesa, P. (22) 1)

Blood–nerve barrier; Blood–brain barrier; Permeability coefficient–surface area product; Residual brain/endoneurial plasma volume; Immunoglobulin (Poduslo, J.F. (23) 157)

Neuropeptide Y; PC12 cell; Protein kinase C; Protein kinase inhibitor; cAMP (Balbi, D. (23) 310)

Mineralocorticoid receptor; NGFI-B; *krox24*; *zif268*; In situ hybridization (Olsson, T. (23) 349)

1,25-Dihydroxyvitamin D_3; Vitamin D receptor; Astrocyte; Gene regulation; Cell culture (Neveu, I. (24) 70)

Microglia; Astrocyte; Schwann cell; Neurodegenerative lesion; Neurotrophin; LNGFR; Brain-derived neurotrophic factor; Neurotrophin 3 (Junier, M.P. (24) 247)

Gene transfer; Herpes simplex virus type 1; Gene therapy (Geschwind, M.D. (24) 327)

NGFIA; NGFIB; Sensory neuron; Transcription factor (Kendall, G. (25) 73)

Inferior frontal gyrus; Phosphorimage analysis; Densitometry; Northern blotting; Dot blotting; Postmortem interval; mRNA yields (Jetté, N. (25) 242)

Ciliary neurotrophic factor; Cloning; Development; PC12 cell; Schwann cell (MacLennan, A.J. (25) 251)

Transcription; Repressor; Fibroblast (Cowie, A. (27) 58)

Lithium; cAMP; Dexamethasone; Gene expression; Neuropeptide; Neuromedin N (Bullock, B.P. (27) 232)

Nerve growth factor family
Brain-derived neurotrophic factor; Multiple promoters; Gene regulation; Neuron-specific expression; Kainate-induced activation; AP-1 binding site (Nakayama, M. (21) 206)

Nerve transection
Sodium channel; Sodium channel type I; Sodium channel type II; Sodium channel type III; Brain; Facial nucleus; Motor neuron; In situ hybridization (Iwahashi, Y. (22) 341)

Mesencephalic trigeminal nucleus; Neuropeptide Y; Substance P; Galanin; Vasoactive intestinal polypeptide; Masseteric nerve (Umemoto, S. (23) 93)

Nervous system
Northern blot analysis; In situ hybridization; Cerebellum; Cerebral cortex; Hippocampus; Choroid plexus; Caudate-putamen; Development (Zagon, I.S. (21) 85)

Choline transporter; Creatine transporter; Choline uptake; Hemicholinium-3; Acetylcholine; Gastrointestinal system (Gonzalez, A.M. (23) 266)

Neural alteration
Neurotrophin; Transcriptional regulation; mRNA; Solution hybridization; Impulse activity (Elliott, R.C. (26) 81)

Neural cell adhesion molecule
Haloperidol; GAP-43; Calmodulin; Gene expression; Neonate; Rat (Castro, R. (26) 74)

Neural development
GATA; Transcription factor; Optic tectum (Kornhauser, J.M. (23) 100)

Neural differentiation
Embryonal carcinoma cell; Retinoic acid; Subtractive hybridization; cDNA (Imai, Y. (24) 313)

Neural regulation
Dopamine β-hydroxylase; Adrenal gland; In vivo (Wong, D.L. (25) 57)

Neural retina
Müller glia; Glutamine synthetase; Hormonal induction; Glucocorticoid receptor; Embryonic development (Grossman, R. (21) 312)

Neuraminidase
Alzheimer's disease; β/A4 Amyloid protein precursor; Sialic acid; Developmental change; Cerebrospinal fluid; Western blot analysis (Sodeyama, N. (27) 320)

Neurite
Somatomedin; Axon regeneration; Paralysis; Neurotrophic factor (Glazner, G.W. (25) 265)

Neuritogenesis
GAP-43; mRNA; Protein distribution; Cerebellum; In vitro (Przyborski, S.A. (25) 273)

Neuroblastoma
Adeno-associated virus; Neuropeptide Y; Gene expression (Wu, P. (24) 27)

Alzheimer's disease; Amyloid precursor protein; Tetracycline-responsive promoter; SK-N-MC; Cytotoxicity (Sopher, B.L. (26) 207)

Neuroblastoma × glioma hybrid cell
Glutamate receptor; NMDA receptor; [$^{45}Ca^{2+}$]influx; MK-801 binding; NG 108-15 cell (Ohkuma, S. (22) 166)

Neurodegeneration
In situ hybridization; mRNA; Choline acetyltransferase; Aging; Alzheimer's disease (Sugaya, K. (23) 111)

Amyloid precursor protein; DNA methylation; Gene regulation (Ledoux, S. (24) 140)

Anion transport protein; Alzheimer's disease; Brain; Neuron (Havenga, M.J.E. (25) 97)

Neurodegenerative lesion
Microglia; Astrocyte; Schwann cell; Neurotrophin; LNGFR; Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin 3 (Junier, M.P. (24) 247)

Neuroendocrine
Kindling; Seizure; Vasopressin; In situ hybridization; Hypothalamus; Supraoptic nucleus (Greenwood, R.S. (24) 20)

Kindling; Seizure; Vasopressin; In situ hybridization; Hypothalamus; Supraoptic nucleus; Hippocampus; Olfactory bulb (Greenwood, R.S. (26) 286)

Neuroendocrinology
Growth factor; Glucocorticoid hormone; Adrenalectomy (Kononen, J. (27) 347)

Neurofilament
Neuronal expression; Gene regulation; Transgenic mouse; Intermediate filament (Côté, F. (26) 99)

Neurofilament expression
Postnatal upregulation; mRNA stability; Dorsal root ganglion; Primary culture; Actinomycin (Schwartz, M.L. (27) 215)

Neurofilament subunit M gene
Neuron-specific transgene expression; Transgenic mouse; Enhancer trap (Elder, G.A. (26) 177)

Neurogranin
mRNA translocation; MAP2; RC3; Glial fibrillary acidic protein; Myelin basic protein; Dendrite; Oligodendrocyte; Reactive astrocyte (Landry, C.F. (27) 1)

Neurokinin NK_1 receptor
In situ hybridization; Retinohypothalamic pathway; Circadian rhythm (Mick, G. (21) 157)

Neurological mutant
Cerebellum; Cerebellin; Gene structure; Chromosomal location (Kavety, B. (27) 152)

Neuromedin
Neurotensin; c-*fos*; Neostriatum; Haloperidol; AP-1 (Merchant, K.M. (23) 270)

Neuromedin N
Nerve growth factor; Lithium; cAMP; Dexamethasone; Gene expression; Neuropeptide (Bullock, B.P. (27) 232)

Neuromodulin
GAP-43; S-100β; Casein kinase II; Protein kinase C; Phosphorylation; Calcium; Acylation (Lin, L.-H. (25) 292)

Neuron
GABA; Transport; mRNA; cAMP; Glial cell (Gomeza, J. (21) 150)

Fibroblast growth factor receptor; Fibroblast growth factor receptor-4; Rat; Brain; Medial habenular nucleus; mRNA; Gene expression (Itoh, N. (21) 344)

Glutamate; NMDA; MK-801; c-*fos*; c-*jun*; Oncogene; Neuroprotection; Excitoprotection; Neurotoxicity; Excitotoxicity; Cerebellum (Weller, M. (22) 227)

Aromatase; Estrogen synthetase; Diencephalon; Reverse transcriptase-polymerase chain reaction technique; Culture (Abe-Dohmae, S. (24) 153)

Anion transport protein; Alzheimer's disease; Brain; Neurodegeneration (Havenga, M.J.E. (25) 97)

Brain; Interleukin-1 receptor; Quantitative autoradiography; RT-PCR; Immunodetection (Parnet, P. (27) 63)

Neuronal cell
Serotonin 5-HT_2 receptor; Transcription; Gene regulation; Promoter; Repressor; Transgenic animal (Toth, M. (27) 315)

Neuronal expression
Neurofilament; Gene regulation; Transgenic mouse; Intermediate filament (Côté, F. (26) 99)

Neuronal plasticity
Calcitonin gene-related peptide mRNA; In situ hybridization histochemistry; Vagus nerve; Glossopharyngeal nerve; Neuropeptide; Rat (Huang, F.-L. (22) 290)

Neuronal transfection
Gene therapy; Excitotoxicity (Bahr, B.A. (26) 277)

Neuron–glia interaction
Astrocyte; Glutamate dehydrogenase; Glutamate metabolism; Glutamine synthetase; Hippocampus; Serotonin (Hardin, H. (26) 1)

Neuron-specific enolase
Interleukin-1 receptor; Double in situ hybridization; Rat (Yabuuchi, K. (27) 27)

Neuron-specific expression
Brain-derived neurotrophic factor; Nerve growth factor family; Multiple promoters; Gene regulation; Kainate-induced activation; AP-1 binding site (Nakayama, M. (21) 206)

Neuron-specific protein
PNP 14; Phosphoneuroprotein; Brain-specific protein; Immunocytochemistry; In situ hybridization; Axonal transport (Nakajo, S. (27) 81)

Neuron-specific transgene expression
Neurofilament subunit M gene; Transgenic mouse; Enhancer trap (Elder, G.A. (26) 177)

Neuropeptide
Calcitonin gene-related peptide mRNA; In situ hybridization histochemistry; Neuronal plasticity; Vagus nerve; Glossopharyngeal nerve; Rat (Huang, F.-L. (22) 290)

FMRFamide; Gene regulation (Schinkmann, K. (24) 238)

Motoneuron; Pro-opiomelanocortin; In situ hybridization; β-Endorphin; α-Melanotropin (Hughes, S. (25) 41)

Peptide neurotransmittter; Prohormone processing; Protease; Endocrine (Hwang, S.-R. (25) 135)

Kindling; Thyrotropin-releasing hormone; Enkephalin; Neuropeptide Y; In situ hybridization; mRNA; Amygdala; Hippocampus; Entorhinal cortex; Pyriform cortex; Perirhinal cortex (Rosen, J.B. (27) 71)

Nerve growth factor; Lithium; cAMP; Dexamethasone; Gene expression; Neuromedin N (Bullock, B.P. (27) 232)

Neuropeptide Y
Antisense oligonucleotide; Arcuate nucleus; Paraventricular nucleus; Feeding behavior (Akabayashi, A. (21) 55)

Seizure; c-*fos*; c-*jun*; NGFI-A; Enkephalin; Dynorphin; Run-on transcription; Hippocampus (Yount, G.L. (21) 219)

Mesencephalic trigeminal nucleus; Substance P; Galanin; Vasoactive intestinal polypeptide; Masseteric nerve; Nerve transection (Umemoto, S. (23) 93)

PC12 cell; Nerve growth factor; Protein kinase C; Protein kinase inhibitor; cAMP (Balbi, D. (23) 310)

Electroconvulsive shock; Limbic cortex; Hippocampus; Dentate gyrus; Piriform cortex; Peptide expression; In situ hybridization histochemistry (Mikkelsen, J.D. (23) 317)

Adeno-associated virus; Gene expression; Neuroblastoma (Wu, P. (24) 27)

Peptide YY; Neuropeptide Y_1 receptor; Neuropeptide Y_2 receptor; Neurpeptide Y_3 receptor; Binding assay; Bioassay (Dumont, Y. (26) 320)

Kindling; Thyrotropin-releasing hormone; Enkephalin; In situ hybridization; mRNA; Neuropeptide; Amygdala; Hippocampus; Entorhinal cortex; Pyriform cortex; Perirhinal cortex (Rosen, J.B. (27) 71)

Stress; Hypophysectomy; mRNA level; Gene expression; Adrenal (Hiremagalur, B. (27) 138)

Neuropeptide Y receptor
Gonadotropin-releasing hormone; In situ hybridization; Prepotic area; Reproduction; Gene expression (Li, S. (26) 69)

Neuropeptide Y_1 receptor
Neuropeptide Y; Peptide YY; Neuropeptide Y_2 receptor; Neurpeptide Y_3 receptor; Binding assay; Bioassay (Dumont, Y. (26) 320)

Neuropeptide Y_2 receptor
Neuropeptide Y; Peptide YY; Neuropeptide Y_1 receptor; Neurpeptide Y_3 receptor; Binding assay; Bioassay (Dumont, Y. (26) 320)

Neuroprotection
Human ciliary neurotrophic factor; Secretion; Immunolocalization; Pyramidal neurons; Hypoglycemia (Negro, A. (21) 124)

Glutamate; NMDA; MK-801; c-*fos*; c-*jun*; Oncogene; Excitoprotection; Neurotoxicity; Excitotoxicity; Cerebellum; Neuron (Weller, M. (22) 227)

Neuroprotective
Brain-derived neurotrophic factor; Neurotrophic; Transcription regulation; Promoter; Basal ganglia (Bishop, J.F. (26) 225)

Neurotensin
c-*fos*; Neuromedin; Neostriatum; Haloperidol; AP-1 (Merchant, K.M. (23) 270)

Neurotoxicity
Glutamate; NMDA; MK-801; c-*fos*; c-*jun*; Oncogene; Neuroprotection; Excitoprotection; Excitotoxicity; Cerebellum; Neuron (Weller, M. (22) 227)

NMDA; mRNA; Hippocampus; Ontogenesis; Glutamate; Gene expression (Riva, M.A. (25) 209)

Neurotoxin
Tyrosine hydroxylase; Locus coeruleus; Serotonin/norepinephrine interaction; 5,6-Dihydroxytryptamine; Gene expression (Sturtz, F. (22) 107)

Neurotransmitter
Ligand-gated channel; Glycine receptor; Phosphorylation; Phorbol ester; Point mutation (Uchiyama, M. (24) 295)

Neurotrophic
Brain-derived neurotrophic factor; Neuroprotective; Transcription regulation; Promoter; Basal ganglia (Bishop, J.F. (26) 225)

Neurotrophic factor
Somatomedin; Axon regeneration; Neurite; Paralysis (Glazner, G.W. (25) 265)

In situ hybridization; Pilocarpine; Seizure; Striatum; Dopaminergic system; Hippocampus; Cortex (Schmidt-Kastner, R. (26) 325)

Neurotrophin
mRNA expression; Alzheimer's disease; Perforant path (Springer, J.E. (23) 135)

Glia; Tyrosine kinase; Phosphorylation; Glycosylation; Autocrine (Zanellato, A. (23) 299)

Microglia; Astrocyte; Schwann cell; Neurodegenerative lesion; LNGFR; Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin 3 (Junier, M.P. (24) 247)

Transcriptional regulation; mRNA; Solution hybridization; Impulse activity; Neural alteration (Elliott, R.C. (26) 81)

Excitotoxicity; Limbic seizure; In situ hybridization histochemistry (Rocamora, N. (26) 89)

Neurotrophin 3
Microglia; Astrocyte; Schwann cell; Neurodegenerative lesion; Neurotrophin; LNGFR; Nerve growth factor; Brain-derived neurotrophic factor (Junier, M.P. (24) 247)

Neurotrophin-3
Glucocorticoid; Hippocampus; GAP-43; BDNF; trkB; trkC; Basic fibroblast growth factor (Chao, H.M. (26) 271)

trk; p75LNGFR; Low-affinity nerve growth factor receptor; NT-3; BDNF; Brain-derived nerve factor; Hypothyroidism (Alvarez-Dolado, M. (27) 249)

Neurpeptide Y_3 receptor
Neuropeptide Y; Peptide YY; Neuropeptide Y_1 receptor; Neuropeptide Y_2 receptor; Binding assay; Bioassay (Dumont, Y. (26) 320)

NF-κB-related factor
Prodynorphin gene expression (Bakalkin, G. (24) 301)

NG 108-15 cell
Glutamate receptor; NMDA receptor; [$^{45}Ca^{2+}$]influx; MK-801 binding; Neuroblastoma × glioma hybrid cell (Ohkuma, S. (22) 166)

NG108-15 cell
Human choline acetyltransferase; 5′ Regulatory sequence; Gene regulation; Thyroid hormone; CAT assay; NE1-115 cell (Quirin-Stricker, C. (23) 253)

δ-Opioid receptor; mRNA; Solution hybridization; Ethanol; Naloxone; Gene expression (Jenab, S. (27) 95)

NGFIA
NGFIB; Sensory neuron; Nerve growth factor; Transcription factor (Kendall, G. (25) 73)

NGFI-A
Seizure; c-*fos*; c-*jun*; Neuropeptide Y; Enkephalin; Dynorphin; Run-on transcription; Hippocampus (Yount, G.L. (21) 219)

c-Fos; Glutamate; Glia; Type 1 astrocyte; Optic nerve (Mack, K.J. (23) 73)

Immediate early gene; Zebra finch; Canary; c-*jun*; *zif*-268; Metrazole; Songbird (Nastiuk, K.L. (27) 299)

***NGFI-A* (zif268)**
Psychostimulant; Catecholamine re-uptake blocker; c-*fos*; Gene expression; Striatum; Withdrawal (Ennulat, D.J. (26) 106)

NGFI-B
Mineralocorticoid receptor; Nerve growth factor; *krox24*; *zif268*; In situ hybridization (Olsson, T. (23) 349)

NGFIB
NGFIA; Sensory neuron; Nerve growth factor; Transcription factor (Kendall, G. (25) 73)

Nicotine
Reward; Reinforcement; Dopamine; c-*fos*; NMDA; Dopamine antagonist; Striatum; Nucleus accumbens (Kiba, H. (23) 1)

Nicotinic acetylcholine receptor
Torpedo; Muscle; *Xenopus* oocyte; Desensitization; Site-directed mutagenesis; cAMP-dependent phosphorylation; Gentamicin (Nishizaki, T. (21) 99)

Cerebral cortex; Cholinergic transmission; In situ hybridization; Digoxigenin; Human brain (Wevers, A. (25) 122)

Nicotinic receptor
Acetylcholine; Receptor mRNA; α_{4-1} Subunit; β_2 Subunit; Superior cervical ganglion; Small intensely fluorescent cell; Sympathetic; Rat (Klimaschewski, L. (27) 167)

Nitric oxide
NMDA receptor; Redox modulation (Omerovic, A. (22) 89)

Activator protein-1; Calcitonin gene-related peptide; Immediate-early gene; Nociception; Substance P; Transcription (Herdegen, T. (22) 245)

Nitric oxide synthase
Subthalamic nucleus; Striatum; Globus pallidus; mRNA; In situ hybridization; Human brain; Co-expression (Nisbet, A.P. (22) 329)

Single-cell PCR; Hippocampus; Long-term potentiation; Retrograde messenger (Chiang, L.W. (27) 183)

NMDA
Glutamate; MK-801; c-*fos*; c-*jun*; Oncogene; Neuroprotection; Excitoprotection; Neurotoxicity; Excitotoxicity; Cerebellum; Neuron (Weller, M. (22) 227)

Nicotine; Reward; Reinforcement; Dopamine; c-*fos*; Dopamine antagonist; Striatum; Nucleus accumbens (Kiba, H. (23) 1)

mRNA; Hippocampus; Ontogenesis; Glutamate; Neurotoxicity; Gene expression (Riva, M.A. (25) 209)

Opioid; Cortex; *zif*-268; c-*fos*; Oncogene; In situ hybridization; Excitatory amino acid (Wang, J.Q. (27) 118)

NMDAR1
GluR1–4; mGluR; Circadian rhythm; Autoradiography; Biological clock (Gannon, R.L. (23) 338)

NMDA receptor
In situ hybridization; Glutamic acid decarboxylase mRNA; Dopamine D_1 receptor; Dopamine D_2 receptor; Dizocilpine MK-801; Fluphenazine-*N*-mustard; EEDQ; Gene regulation (Qin, Z.-H. (21) 293)

Nitric oxide; Redox modulation (Omerovic, A. (22) 89)

Glutamate receptor; [$^{45}Ca^{2+}$]influx; MK-801 binding; Neuroblastoma × glioma hybrid cell; NG 108-15 cell (Ohkuma, S. (22) 166)

Dopamine receptor; MK-801; Opioid peptide; Immediate-early gene; Transcription factor; Gene regulation; Striatum (Bronstein, D.M. (23) 191)

MK-801; c-*fos*; Corticotropin-releasing factor; Hypothalamus; Rat (Lee, S. (24) 192)

$GABA_A$ receptor; Ca^{2+} influx; Voltage-dependent Ca channel blocker; Cerebral cortical neuron (Ohkuma, S. (27) 145)

Nucleus tractus solitarii; Nucleus ambiguus; Pseudorabies virus; In situ hybridization; Immunohistochemistry; Esophageal peristalsis (Broussard, D.L. (27) 329)

NMDA receptor channel
cDNA expression; $\epsilon 2$ Subunit; $\zeta 1$ Subunit; *Xenopus* oocyte; Single-channel current; Cation permeability (Tsuzuki, K. (26) 37)

NMDA receptor gene expression
Cortical activation; Lactation; c-*fos* expression; Brainstem activation; Locus coeruleus; Dorsal raphe (Abbud, R. (25) 323)

Nociception
Capsaicin; Resiniferatoxin; Dorsal root ganglion (Ninkina, N.N. (22) 39)

Activator protein-1; Calcitonin gene-related peptide; Immediate-early gene; Nitric oxide; Substance P; Transcription (Herdegen, T. (22) 245)

Non-isotope
Cerebellum; Hippocampus; In situ hybridization; Spinal cord; Sodium channel (Black, J.A. (22) 275)

In situ hybridization; Ion channel; Sodium channel (Black, J.A. (23) 235)

Noradrenaline
Autoreceptor; Gene expression; In situ hybridization histochemistry; Locus coeruleus (Scheinin, M. (21) 133)

Norepinephrine
Synaptic vesicle; Monoamine transporter; Dihydrotetrahydrobenazine; Reserpine; Serotonin; Dopamine; Epinephrine (Gonzalez, A.M. (22) 219)

Dopamine; Promoter analysis; Catecholaminergic neuron (Min, N. (27) 281)

Norepinephrine transporter
Tricyclic antidepressant; Desipramine; Clonidine; α_2-Adrenoreceptor; Yohimbine; Locus ceruleus (Shores, M.M. (27) 337)

Northern analysis
Thy-1; Transgenic mouse; Fusion gene; β-Galactosidase; Regulatory element (Kelley, K.A. (24) 261)

Northern blot
α_2 Adrenoceptor; Subtype; In situ hybridization; Presynaptic receptor; Sympathetic (Vidovic, M. (22) 49)

Haloperidol; Sulpiride; Dopamine receptor; In situ hybridization; Rat brain (Jaber, M. (23) 14)

In situ hybridization; Cerebellum; Angiogenesis (Mendis, D.B. (24) 11)

Human brain; Temporal cortex; Primary motor cortex; Oxidative metabolism; Alzheimer's disease; Synaptic loss (Chandrasekaran, K. (24) 336)

Northern blot analysis
In situ hybridization; Nervous system; Cerebellum; Cerebral cortex; Hippocampus; Choroid plexus; Caudate-putamen; Development (Zagon, I.S. (21) 85)

$GABA_A$ receptor; $\alpha 1$ Subunit; $\alpha 6$ Subunit; $\beta 2$ Subunit; WSR mouse; WSP mouse; Ethanol (Keir, W.J. (25) 200)

Dopamine D_1 receptor; Dopamine D_2 receptor; Dopamine D_5 receptor (Laurier, L.G. (25) 344)

Northern blotting
Nerve growth factor; Inferior frontal gyrus; Phosphorimage analysis; Densitometry; Dot blotting; Postmortem interval; mRNA yields (Jetté, N. (25) 242)

Novel clone
Antiserum; cDNA expression library; Cerebellum; Granule cell; In situ hybridization; Western blot (Kambouris, M. (25) 183)

Novelty preference
Fyn kinase-deficient mouse; Increased fearfulness; Emotionality; Light aversion; Passive avoidance; Mutant mouse; Polymerase chain reaction (Miyakawa, T. (27) 179)

NP25
cDNA; Central nervous system (Ren, W.-Z. (22) 173)

***NSP* expression in brain**
Anti-NSP antibody; Epitope mapping (Van de Velde, H.J.K. (23) 81)

NT-3
trk; p75LNGFR; Low-affinity nerve growth factor receptor; Neurotrophin-3; BDNF; Brain-derived nerve factor; Hypothyroidism (Alvarez-Dolado, M. (27) 249)

Nuclear receptor
Orphan receptor; Transcription; Hippocampus; Reverse-transcription-PCR; Gene expression (Peña de Ortiz, S. (23) 277)

Nucleus accumbens
Dopamine receptor; Glutamate; Dopamine; Hippocampus; Basal ganglia (Brené, S. (21) 274)

Preprodynorphin; Preproenkephalin; In situ hybridization; Caudate (Smith, A.J.W. (21) 359)

Nicotine; Reward; Reinforcement; Dopamine; c-*fos*; NMDA; Dopamine antagonist; Striatum (Kiba, H. (23) 1)

Nucleus ambiguus
NMDA receptor; Nucleus tractus solitarii; Pseudorabies virus; In situ hybridization; Immunohistochemistry; Esophageal peristalsis (Broussard, D.L. (27) 329)

Nucleus tractus solitarii
NMDA receptor; Nucleus ambiguus; Pseudorabies virus; In situ hybridization; Immunohistochemistry; Esophageal peristalsis (Broussard, D.L. (27) 329)

O

Olfactory bulb
cDNA; Cerebellum; Granule cell; Human; Hippocampal formation; In situ hybridization; Mouse; Substantia nigra (Kambouris, M. (25) 192)

Kindling; Seizure; Vasopressin; Neuroendocrine; In situ hybridization; Hypothalamus; Supraoptic nucleus; Hippocampus (Greenwood, R.S. (26) 286)

Olfactory marker protein
Vomeronasal organ; Septal organ; Olfactory receptor; Digoxigenin; Mouse (Kishimoto, J. (23) 33)

Olfactory receptor
Vomeronasal organ; Septal organ; Olfactory marker protein; Digoxigenin; Mouse (Kishimoto, J. (23) 33)

Olfactory tissue
Shotgun screening; Tissue specific gene; β-Tubulin; Basic-helix-loop-helix motif; S-100; Calcium binding protein (Bettini, E. (23) 285)

Oligodendrocyte
Dimeric interleukin-2; Herpes simplex viral vector (Eizenberg, O. (26) 156)

sgk; Brain injury; Differential display; Transcriptional regulation (Imaizumi, K. (26) 189)

mRNA translocation; MAP2; Neurogranin; RC3; Glial fibrillary acidic protein; Myelin basic protein; Dendrite; Reactive astrocyte (Landry, C.F. (27) 1)

Oligodendrocyte progenitor
Basic fibroblast growth factor; Cell proliferation; c-*fos*; Genistein; Protein kinase C (Radhakrishna, M. (24) 118)

Oligonucleotide
Muscarinic receptor subtype; Muscarinic autoreceptor; Cholinergic cell; Choline acetyltransferase; In situ hybridization; Acetylcholine release; Rat brain (Vilaró, M.T. (21) 30)

In situ hybridization; Serotonin receptor; mRNA; Rat brain (Pompeiano, M. (23) 163)

Oncogene
Glutamate; NMDA; MK-801; c-*fos*; c-*jun*; Neuroprotection; Excitoprotection; Neurotoxicity; Excitotoxicity; Cerebellum; Neuron (Weller, M. (22) 227)

NMDA; Opioid; Cortex; *zif*-268; c-*fos*; In situ hybridization; Excitatory amino acid (Wang, J.Q. (27) 118)

Ontogenesis
NMDA; mRNA; Hippocampus; Glutamate; Neurotoxicity; Gene expression (Riva, M.A. (25) 209)

Ontogeny
Transforming growth factor α; Epidermal growth factor; Brain; Cerebral cortex; Hemidecortication; Neostriatum; Plasticity; In situ hybridization (Kornblum, H.I. (21) 107)

Protein phosphatase 1; Inhibitor-1; Central nervous system; In situ hybridization (Sakagami, H. (25) 7)

In situ hybridization; DARPP-32; Rat brain (Sakagami, H. (25) 67)

Opiate
Calcium ion; Calcium binding protein; Cerebellum; Drug abuse (Tirumalai, P.S. (23) 144)

Opioid
NMDA; Cortex; *zif*-268; c-*fos*; Oncogene; In situ hybridization; Excitatory amino acid (Wang, J.Q. (27) 118)

mRNA; Blood pressure; Brain; Stress; In situ hybridization (Boone Jr., J.B. (27) 290)

Opioid peptide
Dopamine receptor; NMDA receptor; MK-801; Immediate-early gene; Transcription factor; Gene regulation; Striatum (Bronstein, D.M. (23) 191)

Opioid receptor
Xenopus oocyte; mRNA; Ca^{2+}-dependent Cl^- channel; Naloxone; DPDPE (Kaneko, S. (22) 69)

Rat brain; cDNA cloning; Transmembrane protein; Transient expression; In situ hybridization (Wick, M.J. (27) 37)

δ-Opioid receptor
NG108-15 cell; mRNA; Solution hybridization; Ethanol; Naloxone; Gene expression (Jenab, S. (27) 95)

κ-Opioid receptor
Adenylyl cyclase; Phospholipase C; *Xenopus* oocyte; cAMP; Ca^{2+}; U50488H (Kaneko, S. (27) 258)

μ Opioid receptor
Vagal preganglionic neuron; Vagotomy; In situ hybridization; Rat (Houtani, T. (24) 347)

Optic nerve
Reverse transcription-PCR; Restriction enzyme; Spinal cord (Oh, Y. (23) 57)

c-Fos; Glutamate; Glia; NGFI-A; Type 1 astrocyte (Mack, K.J. (23) 73)

Optic tectum
GATA; Transcription factor; Neural development (Kornhauser, J.M. (23) 100)

Orphan receptor
Nuclear receptor; Transcription; Hippocampus; Reverse-transcription-PCR; Gene expression (Peña de Ortiz, S. (23) 277)

***otx* homeoprotein**
Zebrafish; Brain development; Embryogenesis; Gastrulation; Diencephalon; Midbrain (Mori, H. (27) 221)

Outer hair cell
G_i protein; α Subunit; cDNA library; Molecular cloning; Immunohistochemistry; Affinity-purified antibody; Cochlea; Inner hair cell (Tachibana, M. (21) 355)

Oxidative metabolism
Human brain; Temporal cortex; Primary motor cortex; Northern blot; Alzheimer's disease; Synaptic loss (Chandrasekaran, K. (24) 336)

Oxytocin
Vasopressin; Paraventricular nucleus; Supraoptic nucleus; Arcuate nucleus (Petrov, T. (22) 333)

P

Pain
Glutamic acid decarboxylase; Monoarthritis; Chronic inflammation; GABA; In situ hybridization; Spinal cord; Rat (Castro-Lopes, J.M. (26) 169)

Paralysis
Somatomedin; Axon regeneration; Neurite; Neurotrophic factor (Glazner, G.W. (25) 265)

Paraventricular nucleus
Neuropeptide Y; Antisense oligonucleotide; Arcuate nucleus; Feeding behavior (Akabayashi, A. (21) 55)

Vasopressin; Oxytocin; Supraoptic nucleus; Arcuate nucleus (Petrov, T. (22) 333)

Ethanol; In situ hybridization histochemistry; Transcription factor; Thyrotropin-releasing hormone; Corticotropin-releasing hormone (Zoeller, R.T. (24) 185)

Galanin; Corticosterone; Arcuate nucleus; Dorsal raphe; mRNA (Akabayashi, A. (25) 305)

Vasopressin; Vasoactive intestinal peptide; Corticotrophin-releasing factor; Glucocorticoid; Corticosterone; Dexamethasone; Suprachiasmatic nucleus; In situ hybridization histochemistry; Rat (Larsen, P.J. (27) 342)

Parkinson's disease
Glutamate decarboxylase; Basal ganglia; Dopamine; MPTP; Monkey (Pedneault, S. (25) 351)

Passive avoidance
Fyn kinase-deficient mouse; Increased fearfulness; Emotionality; Novelty preference; Light aversion; Mutant mouse; Polymerase chain reaction (Miyakawa, T. (27) 179)

PC12 cell
Astrocyte; Prion protein; Glial fibrillary acidic protein; Growth factor; Interleukin-6; mRNA; Mouse (Lazarini, F. (22) 268)

B-50/GAP-43; Transcription initiation site; Luciferase; Transient transfection; Promoter activity; P19-EC cell (Eggen, B.J.L. (23) 221)

Neuropeptide Y; Nerve growth factor; Protein kinase C; Protein kinase inhibitor; cAMP (Balbi, D. (23) 310)

Ciliary neurotrophic factor; Cloning; Development; Nerve growth factor; Schwann cell (MacLennan, A.J. (25) 251)

P19-EC cell
B-50/GAP-43; Transcription initiation site; Luciferase; Transient transfection; Promoter activity; PC12 cell (Eggen, B.J.L. (23) 221)

α_1 Peptide
α_2 Peptide; ProVD1/RPD2-A; ProVD1/RPD2-B; HPLC; Edman degradation; Heart beat stimulation; *Lymnaea* (Bogerd, J. (23) 66)

α_2 Peptide
α_1 Peptide; ProVD1/RPD2-A; ProVD1/RPD2-B; HPLC; Edman degradation; Heart beat stimulation; *Lymnaea* (Bogerd, J. (23) 66)

Peptide expression
Neuropeptide Y; Electroconvulsive shock; Limbic cortex; Hippocampus; Dentate gyrus; Piriform cortex; In situ hybridization histochemistry (Mikkelsen, J.D. (23) 317)

Peptide neurotransmittter
Prohormone processing; Protease; Neuropeptide; Endocrine (Hwang, S.-R. (25) 135)

Peptide YY
Neuropeptide Y; Neuropeptide Y_1 receptor; Neuropeptide Y_2 receptor; Neurpeptide Y_3 receptor; Binding assay; Bioassay (Dumont, Y. (26) 320)

Perforant path
Neurotrophin; mRNA expression; Alzheimer's disease (Springer, J.E. (23) 135)

Peripheral nerve grafting
Retinal ganglion cell; Regeneration; Immediate early gene; Axotomy; Transcription factor (Robinson, G.A. (24) 43)

Peripheral nerve regeneration
RNA polymerase; Transcription; Sensory ganglion; Axotomy (Wells, M.R. (27) 163)

Perirhinal cortex
Kindling; Thyrotropin-releasing hormone; Enkephalin; Neuropeptide Y; In situ hybridization; mRNA; Neuropeptide; Amygdala; Hippocampus; Entorhinal cortex; Pyriform cortex (Rosen, J.B. (27) 71)

Permeability coefficient–surface area product
Blood–nerve barrier; Blood–brain barrier; Residual brain/endoneurial plasma volume; Nerve growth factor; Immunoglobulin (Poduslo, J.F. (23) 157)

Phorbol ester
Protein kinase C; *Aplysia* sensory neuron; Presynaptic facilitation; Behavioral sensitization; Behavioral dishabituation (Sossin, W.S. (24) 210)

Ligand-gated channel; Glycine receptor; Neurotransmitter; Phosphorylation; Point mutation (Uchiyama, M. (24) 295)

Phorbol myristate acetate
Striatal neuron; Adenylate cyclase; Dopamine; Calcium ionophore A23187; Protein kinase C (Schinelli, S. (21) 162)

Phosphodiesterase
Calcium; Calmodulin; Rat; Brain; In situ hybridization (Furuyama, T. (26) 331)

Phosphoinositide-linked receptor
Metabotropic glutamate receptor; Hippocampus; Entorhinal cortex; Excitotoxicity (Fotuhi, M. (21) 283)

Phospholipase A_2
cDNA cloning; Ischemia; Rat brain (Owada, Y. (25) 364)

Phospholipase C
κ-Opioid receptor; Adenylyl cyclase; *Xenopus* oocyte; cAMP; Ca^{2+}; U50488H (Kaneko, S. (27) 258)

Phosphoneuroprotein
PNP 14; Brain-specific protein; Neuron-specific protein; Immunocytochemistry; In situ hybridization; Axonal transport (Nakajo, S. (27) 81)

Phosphorimage analysis
Nerve growth factor; Inferior frontal gyrus; Densitometry; Northern blotting; Dot blotting; Postmortem interval; mRNA yields (Jetté, N. (25) 242)

Phosphorylation
Neurotrophin; Glia; Tyrosine kinase; Glycosylation; Autocrine (Zanellato, A. (23) 299)

$GABA_A$ receptor; Protein kinase A (Jalilian Tehrani, M.H. (24) 55)

Ligand-gated channel; Glycine receptor; Neurotransmitter; Phorbol ester; Point mutation (Uchiyama, M. (24) 295)

GAP-43; S-100β; Casein kinase II; Protein kinase C; Calcium; Acylation; Neuromodulin (Lin, L.-H. (25) 292)

Acetylcholine receptor; Forskolin; Denervation; Developmental switch; Receptor regulation (Jayawickreme, S.P. (26) 293)

Phosphotyrosine
Transcription factor; Proto-oncogene; Tyrosine kinase; Dynorphin (Gu, J. (24) 77)

Pia
Cytokine; Hippocampus; Dentate gyrus; Astrocyte; Gene regulation; Acidic fibroblast growth factor; In situ hybridization (Rivera, S. (27) 12)

Pilocarpine
Transcription factor; Proto-oncogene; Learning; Memory; Long-term potentiation; Kindling (Hughes, P. (24) 166)

In situ hybridization; Neurotrophic factor; Seizure; Striatum; Dopaminergic system; Hippocampus; Cortex (Schmidt-Kastner, R. (26) 325)

Pineal gland
Transgenic mouse; Tryptophan hydroxylase; Serotonergic neuron (Huh, S.O. (24) 145)

Piriform cortex
Neuropeptide Y; Electroconvulsive shock; Limbic cortex; Hippocampus; Dentate gyrus; Peptide expression; In situ hybridization histochemistry (Mikkelsen, J.D. (23) 317)

Pituitary
c-*fos*; c-*jun*; Immobilization; Hypothalamic paraventricuar nucleus; Adrenal gland; Rat (Senba, E. (24) 283)

Interleukin-1; Interleukin-6; Tumor necrosis factor; Lipopolysaccharide; Brain; Semiquantitative RT-PCR; Sickness behavior (Layé, S. (27) 157)

Plasticity
Transforming growth factor α; Epidermal growth factor; Brain; Cerebral cortex; Hemidecortication; Neostriatum; Ontogeny; In situ hybridization (Kornblum, H.I. (21) 107)

Brain development; Helix-loop-helix; Gene expression; Mouse development (Soosaar, A. (25) 176)

PNP 14
Phosphoneuroprotein; Brain-specific protein; Neuron-specific protein; Immunocytochemistry; In situ hybridization; Axonal transport (Nakajo, S. (27) 81)

Point mutation
Ligand-gated channel; Glycine receptor; Neurotransmitter; Phosphorylation; Phorbol ester (Uchiyama, M. (24) 295)

Polymerase chain reaction
RNA editing; Glutamate receptor; Rat; Human; AMPA; Brain (Cha, J.-H.J. (22) 323)

In situ hybridization; Immunocytochemistry; Dopamine D_2 receptor mRNA; Culture of striatal and cerebellar astrocytes (Bal, A. (23) 204)

G protein-coupled receptor; Radioligand binding; Mammalian cell expression; In situ hybridization (Meng, F. (26) 143)

Fyn kinase-deficient mouse; Increased fearfulness; Emotionality; Novelty preference; Light aversion; Passive avoidance; Mutant mouse (Miyakawa, T. (27) 179)

Polypeptide expression
Chronic ethanol treatment; $GABA_A$ receptor; β-Receptor subunit; mRNA level; Upregulation (Mhatre, M. (23) 246)

POMC mRNA
Mediobasal hypothalamus; Quantitative in situ hybridization; Acute immobilization stress (Baubet, V. (26) 163)

Post-mitotic neuron
Liposome; Hemagglutinating virus of Japan; Gene transfer; Brain; Central nervous system (Kato, K. (25) 359)

Postmortem interval
Nerve growth factor; Inferior frontal gyrus; Phosphorimage analysis; Densitometry; Northern blotting; Dot blotting; mRNA yields (Jetté, N. (25) 242)

Postnatal upregulation
Neurofilament expression; mRNA stability; Dorsal root ganglion; Primary culture; Actinomycin (Schwartz, M.L. (27) 215)

Postsynaptic
Forebrain-enriched; Cytosolic protein; Synaptosomal solubilization (Watson, J.B. (27) 323)

Post-transcriptional regulation
Delivery system; Development; Gene expression; Nerve growth factor; Transgenesis (Onténiente, B. (21) 225)

Preoptic DOPAC
Morphine; Dopamine neuron; Hypothalamus; Tyrosine hydroxylase mRNA; Dialysis (Molnar, J. (22) 97)

Prepotic area
Gonadotropin-releasing hormone; Neuropeptide Y receptor; In situ hybridization; Reproduction; Gene expression (Li, S. (26) 69)

Preprocholecystokinin
In situ hybridization; Gene expression; Brain; Dopamine; MDMA (Wotherspoon, G. (25) 34)

Preprodynorphin
Preproenkephalin; In situ hybridization; Caudate; Nucleus accumbens (Smith, A.J.W. (21) 359)

Preproenkephalin
Preprodynorphin; In situ hybridization; Caudate; Nucleus accumbens (Smith, A.J.W. (21) 359)

Presynaptic facilitation
Protein kinase C; *Aplysia* sensory neuron; Phorbol ester; Behavioral sensitization; Behavioral dishabituation (Sossin, W.S. (24) 210)

Presynaptic receptor
α_2 Adrenoceptor; Subtype; Northern blot; In situ hybridization; Sympathetic (Vidovic, M. (22) 49)

Primary afferent system
GABA; $GABA_A$ receptor; $\gamma 1$ Subunit; $\gamma 2$ Subunit; Coexpression; Trigeminal ganglion (Kondo, E. (21) 363)

Primary culture
Excitotoxicity; Glutamate receptor; Calcium channel; Fura-2; Calcium; Dopaminergic neuron (De Erausquin, G. (21) 303)

Neurofilament expression; Postnatal upregulation; mRNA stability; Dorsal root ganglion; Actinomycin (Schwartz, M.L. (27) 215)

Primary motor cortex
Human brain; Temporal cortex; Northern blot; Oxidative metabolism; Alzheimer's disease; Synaptic loss (Chandrasekaran, K. (24) 336)

Prion protein
PC12 cell; Astrocyte; Glial fibrillary acidic protein; Growth factor; Interleukin-6; mRNA; Mouse (Lazarini, F. (22) 268)

Prion protein gene
Amyloid precursor gene; Cadherin; Synaptophysin; Retinoic acid (Ackerman, S.L. (25) 157)

Process formation
Growth-associated protein B-50/GAP-43; Defective herpes simplex vector; Gene transfer (Verhaagen, J. (26) 26)

Prodynorphin gene expression
NF-κB-related factor (Bakalkin, G. (24) 301)

Proenkephalin
Kindling; Glutamate receptor; Gene expression; Rat (Lee, S. (24) 34)

Brain; In situ hybridization; Blood pressure regulation; Met-enkephalin; mRNA (Boone Jr., J.B. (24) 320)

Programmed cell death
Brain damage; Fos; Jun; Krox; Brain-derived neurotrophic factor (Dragunow, M. (25) 19)

Prohormone processing
Peptide neurotransmittter; Protease; Neuropeptide; Endocrine (Hwang, S.-R. (25) 135)

Proline-dependent phosphorylation
Cytoskeletal disorder (Ulloa, L. (26) 113)

Promoter
Brain-derived neurotrophic factor; Neurotrophic; Neuroprotective; Transcription regulation; Basal ganglia (Bishop, J.F. (26) 225)

Serotonin 5-HT_2 receptor; Transcription; Gene regulation; Repressor; Transgenic animal; Neuronal cell (Toth, M. (27) 315)

Promoter activity
B-50/GAP-43; Transcription initiation site; Luciferase; Transient transfection; PC12 cell; P19-EC cell (Eggen, B.J.L. (23) 221)

Promoter analysis
Dopamine; Norepinephrine; Catecholaminergic neuron (Min, N. (27) 281)

Promotor structure
Alzheimer's disease; Amyloid; AP-1; Brain gene regulation; SP1; TFIID (Lukiw, W.J. (22) 121)

Pro-opiomelanocortin
Motoneuron; In situ hybridization; β-Endorphin; α-Melanotropin; Neuropeptide (Hughes, S. (25) 41)

Proopiomelanocortin
β-Endorphin; Androgen; Dihydrotestosterone; Estradiol; Hypothalamus (Matera, C. (27) 275)

Protease
Peptide neurotransmittter; Prohormone processing; Neuropeptide; Endocrine (Hwang, S.-R. (25) 135)

14-3-3 Protein
ζ Subtype; θ Subtype; cDNA cloning; In situ hybridization; Brain; Development; Rat (Watanabe, M. (25) 113)

Protein distribution
GAP-43; Neuritogenesis; mRNA; Cerebellum; In vitro (Przyborski, S.A. (25) 273)

Protein F1 / GAP43
Glial S100b; Protein kinase C; Synaptic plasticity; Alzheimer's disease; Down's syndrome (Sheu, F.-S. (21) 62)

Protein kinase A
$GABA_A$ receptor; Phosphorylation (Jalilian Tehrani, M.H. (24) 55)

Protein kinase C
Glial S100b; Protein F1/GAP43; Synaptic plasticity; Alzheimer's disease; Down's syndrome (Sheu, F.-S. (21) 62)

Striatal neuron; Adenylate cyclase; Dopamine; Calcium ionophore A23187; Phorbol myristate acetate (Schinelli, S. (21) 162)

Neuropeptide Y; PC12 cell; Nerve growth factor; Protein kinase inhibitor; cAMP (Balbi, D. (23) 310)

Basic fibroblast growth factor; Cell proliferation; c-*fos*; Genistein; Oligodendrocyte progenitor (Radhakrishna, M. (24) 118)

Aplysia sensory neuron; Phorbol ester; Presynaptic facilitation; Behavioral sensitization; Behavioral dishabituation (Sossin, W.S. (24) 210)

GAP-43; S-100β; Casein kinase II; Phosphorylation; Calcium; Acylation; Neuromodulin (Lin, L.-H. (25) 292)

Protein kinase inhibitor
Neuropeptide Y; PC12 cell; Nerve growth factor; Protein kinase C; cAMP (Balbi, D. (23) 310)

Protein phosphatase 1
Inhibitor-1; Central nervous system; Ontogeny; In situ hybridization (Sakagami, H. (25) 7)

Protein phosphatase 2A
mRNA; Brain; Rat; In situ hybridization (Abe, H. (22) 139)

Proto-oncogene
Visual cortex; Fos protein; c-*fos*; Immediate early gene; Visual development (Mower, G.D. (21) 47)

Transcription factor; Tyrosine kinase; Phosphotyrosine; Dynorphin (Gu, J. (24) 77)

Pilocarpine; Transcription factor; Learning; Memory; Long-term potentiation; Kindling (Hughes, P. (24) 166)

ProVD1 / RPD2-A
α_1 Peptide; α_2 Peptide; ProVD1/RPD2-B; HPLC; Edman degradation; Heart beat stimulation; *Lymnaea* (Bogerd, J. (23) 66)

ProVD1 / RPD2-B
α_1 Peptide; α_2 Peptide; ProVD1/RPD2-A; HPLC; Edman degradation; Heart beat stimulation; *Lymnaea* (Bogerd, J. (23) 66)

Pseudorabies virus
NMDA receptor; Nucleus tractus solitarii; Nucleus ambiguus; In situ hybridization; Immunohistochemistry; Esophageal peristalsis (Broussard, D.L. (27) 329)

Psychostimulant
Catecholamine re-uptake blocker; c-*fos*; *NGFI-A* (zif268); Gene expression; Striatum; Withdrawal (Ennulat, D.J. (26) 106)

Pyramidal neuron
Somatostatin; In situ hybridization histochemistry; mRNA; Cerebral cortex; Rat (Ong, W.Y. (23) 151)

Human ciliary neurotrophic factor; Secretion; Immunolocalization; Hypoglycemia; Neuroprotection (Negro, A. (21) 124)

Pyriform cortex
Kindling; Thyrotropin-releasing hormone; Enkephalin; Neuropeptide Y; In situ hybridization; mRNA; Neuropeptide; Amygdala; Hippocampus; Entorhinal cortex; Perirhinal cortex (Rosen, J.B. (27) 71)

Q

Quantitative autoradiography
Brain; Interleukin-1 receptor; Neuron; RT-PCR; Immunodetection (Parnet, P. (27) 63)

Quantitative in situ hybridization
POMC mRNA; Mediobasal hypothalamus; Acute immobilization stress (Baubet, V. (26) 163)

Quantitative receptor autoradiography
Serotonin 5-HT_{1D} binding site; Serotonin non-5-$HT_{1A/1B/1C/1D}$ [^{3}H]5-HT binding site; Human brain; Guinea pig brain (Bruinvels, A.T. (21) 19)

R

Radioligand binding
G protein-coupled receptor; Polymerase chain reaction; Mammalian cell expression; In situ hybridization (Meng, F. (26) 143)

Rat
Fibroblast growth factor receptor; Fibroblast growth factor receptor-4; Brain; Medial habenular nucleus; Neuron; mRNA; Gene expression (Itoh, N. (21) 344)

Basic fibroblast growth factor mRNA; Acidic fibroblast growth factor; Nerve growth factor; *trk* A; RNase protection assay (Follesa, P. (22) 1)

Transplantation; Immunocytochemistry; Epileptic seizure; Transcription factor; Fos; Jun; Krox (Bele, S. (22) 9)

Protein phosphatase 2A; mRNA; Brain; In situ hybridization (Abe, H. (22) 139)

In situ hybridization; Gene expression; Caudate-putamen; Co-expression; Striatopallidal; Striatal interneuron (Augood, S.J. (22) 204)

Calcitonin gene-related peptide mRNA; In situ hybridization histochemistry; Neuronal plasticity; Vagus nerve; Glossopharyngeal nerve; Neuropeptide (Huang, F.-L. (22) 290)

RNA editing; Glutamate receptor; Human; AMPA; Brain; Polymerase chain reaction (Cha, J.-H.J. (22) 323)

Somatostatin; In situ hybridization histochemistry; mRNA; Pyramidal neuron; Cerebral cortex (Ong, W.Y. (23) 151)

Kindling; Glutamate receptor; Proenkephalin; Gene expression (Lee, S. (24) 34)

Vasopressin; mRNA; Suprachiasmatic nucleus; Circadian rhythm; Supraoptic nucleus (Cagampang, F.R.A. (24) 179)

MK-801; NMDA receptor; c-*fos*; Corticotropin-releasing factor; Hypothalamus (Lee, S. (24) 192)

c-*fos*; c-*jun*; Immobilization; Hypothalamic paraventricuar nucleus; Pituitary; Adrenal gland (Senba, E. (24) 283)

μ Opioid receptor; Vagal preganglionic neuron; Vagotomy; In situ hybridization (Houtani, T. (24) 347)

14-3-3 Protein; ζ Subtype; θ Subtype; cDNA cloning; In situ hybridization; Brain; Development (Watanabe, M. (25) 113)

Retina; In situ hybridization; $GABA_A$ receptor α1 subunit; L-Glutamate decarboxylase; Retinal ganglion cell; Digoxigenin-labeled cRNA (Kosaka, J. (25) 163)

Haloperidol; Neural cell adhesion molecule; GAP-43; Calmodulin; Gene expression; Neonate (Castro, R. (26) 74)

Transient forebrain ischemia; Interleukin-1β; In situ hybridization (Yabuuchi, K. (26) 135)

Glutamic acid decarboxylase; Monoarthritis; Chronic inflammation; Pain; GABA; In situ hybridization; Spinal cord (Castro-Lopes, J.M. (26) 169)

Calcium; Calmodulin; Phosphodiesterase; Brain; In situ hybridization (Furuyama, T. (26) 331)

Interleukin-1 receptor; Neuron-specific enolase; Double in situ hybridization (Yabuuchi, K. (27) 27)

Acetylcholine; Nicotinic receptor; Receptor mRNA; α_{4-1} Subunit; β_2 Subunit; Superior cervical ganglion; Small intensely fluorescent cell; Sympathetic (Klimaschewski, L. (27) 167)

Glutamate-aspartate transporter mRNA; In situ hybridization; Ischemia; Retina (Otori, Y. (27) 310)

Vasopressin; Vasoactive intestinal peptide; Corticotrophin-releasing factor; Glucocorticoid; Corticosterone; Dexamethasone; Suprachiasmatic nucleus; Paraventricular nucleus; In situ hybridization histochemistry (Larsen, P.J. (27) 342)

Rat brain
Muscarinic receptor subtype; Muscarinic autoreceptor; Cholinergic cell; Choline acetyltransferase; In situ hybridization; Oligonucleotide; Acetylcholine release (Vilaró, M.T. (21) 30)

Glutamate transporter; cDNA; *Xenopus* oocyte; Inhibitor (Tanaka, K. (21) 167)

Sodium pump isoform; Immunoblotting; Immunocytochemistry; Granule cell; Astrocyte; Monkey brain (Cameron, R. (21) 333)

Haloperidol; Sulpiride; Dopamine receptor; In situ hybridization; Northern blot (Jaber, M. (23) 14)

In situ hybridization; Oligonucleotide; Serotonin receptor; mRNA (Pompeiano, M. (23) 163)

GAP-43; Immunocytochemistry; mRNA; Axotomy; Facial nucleus (Palacios, G. (24) 107)

GABA receptor; Benzodiazepine receptor; Antibody; In situ hybridization; Ethanol; γ_2 Subunit (Miralles, C.P. (24) 129)

ROMK1; ATP-sensitive K-channel (Kenna, S. (24) 353)

Hexokinase; Gene expression; Aging; In situ hybridization (Cimino, M. (25) 1)

In situ hybridization; DARPP-32; Ontogeny (Sakagami, H. (25) 67)

Calretinin mRNA; Calcium appetite; Substantia nigra; Ventral tegmental area; Lysate RNase protection assay; Tyrosine hydroxylase mRNA (Strauss, K.I. (25) 140)

cDNA cloning; Ischemia; Phospholipase A_2 (Owada, Y. (25) 364)

Opioid receptor; cDNA cloning; Transmembrane protein; Transient expression; In situ hybridization (Wick, M.J. (27) 37)

RC3
mRNA translocation; MAP2; Neurogranin; Glial fibrillary acidic protein; Myelin basic protein; Dendrite; Oligodendrocyte; Reactive astrocyte (Landry, C.F. (27) 1)

Reactive astrocyte
mRNA translocation; MAP2; Neurogranin; RC3; Glial fibrillary acidic protein; Myelin basic protein; Dendrite; Oligodendrocyte (Landry, C.F. (27) 1)

Receptor
Serotonin; Ligand-gated ion channel; Gene structure; Alternative splicing; Mouse (Werner, P. (26) 233)

Receptor autoradiography
Infarction; In situ hybridization; Receptor down-regulation; Xanthine; Neonatal rat (Ådén, U. (23) 354)

$GABA_A$-benzodiazepine receptor complex; mRNA; Kindled seizure; Hippocampus; Carbamazepine; Contingent tolerance; In situ hybridization (Clark, M. (26) 309)

Receptor down-regulation
Infarction; In situ hybridization; Receptor autoradiography; Xanthine; Neonatal rat (Ådén, U. (23) 354)

Receptor expression
Dopamine receptor; RNA-PCR; Schizophrenia (Roberts, D.A. (25) 173)

Receptor mRNA
Acetylcholine; Nicotinic receptor; α_{4-1} Subunit; β_2 Subunit; Superior cervical ganglion; Small intensely fluorescent cell; Sympathetic; Rat (Klimaschewski, L. (27) 167)

Receptor regulation
Acetylcholine receptor; Phosphorylation; Forskolin; Denervation; Developmental switch (Jayawickreme, S.P. (26) 293)

β-Receptor subunit
Chronic ethanol treatment; $GABA_A$ receptor; mRNA level; Polypeptide expression; Upregulation (Mhatre, M. (23) 246)

Recombinant inbred strain
Melatonin deficiency; Serotonin *N*-acetyltransferase; Hydroxyindole-*O*-methyltransferase; Gene mapping; Circadian rhythm (Goto, M. (21) 349)

Redox modulation
NMDA receptor; Nitric oxide (Omerovic, A. (22) 89)

Regeneration
In situ hybridization; Motoneuron; Vinblastine; mRNA (Kobayashi, N. (21) 9)

Retinal ganglion cell; Immediate early gene; Axotomy; Transcription factor; Peripheral nerve grafting (Robinson, G.A. (24) 43)

ATF1; Calcium; cAMP; Cell body response; CREB1; CREM; Fos protein; Gene transcription; Immediate early gene; Jun protein (Herdegen, T. (26) 259)

Regulatory element
Thy-1; Transgenic mouse; Fusion gene; Northern analysis; β-Galactosidase (Kelley, K.A. (24) 261)

5′ Regulatory sequence
Human choline acetyltransferase; Gene regulation; Thyroid hormone; CAT assay; NE1-115 cell; NG108-15 cell (Quirin-Stricker, C. (23) 253)

Reinforcement
Nicotine; Reward; Dopamine; c-*fos*; NMDA; Dopamine antagonist; Striatum; Nucleus accumbens (Kiba, H. (23) 1)

Reperfusion
Intercellular adhesion molecule 1; Focal brain ischemia; Stroke; Inflammation (Wang, X. (26) 61)

Repressor
Nerve growth factor; Transcription; Fibroblast (Cowie, A. (27) 58)

Serotonin $5\text{-}HT_2$ receptor; Transcription; Gene regulation; Promoter; Transgenic animal; Neuronal cell (Toth, M. (27) 315)

Reproduction
Gonadotropin-releasing hormone; Neuropeptide Y receptor; In situ hybridization; Preoptic area; Gene expression (Li, S. (26) 69)

Reproductive behavior
Myo-modulatory peptide; Direct mass spectrometry of nervous tissue; Edman degradation; Mollusc; *Lymnaea stagnalis* (Li, K.W. (25) 355)

Reserpine
Synaptic vesicle; Monoamine transporter; Dihydrotetrahydrobenazine; Serotonin; Dopamine; Norepinephrine; Epinephrine (Gonzalez, A.M. (22) 219)

Residual brain / endoneurial plasma volume
Blood–nerve barrier; Blood–brain barrier; Permeability coefficient–surface area product; Nerve growth factor; Immunoglobulin (Poduslo, J.F. (23) 157)

Resiniferatoxin
Capsaicin; Dorsal root ganglion; Nociception (Ninkina, N.N. (22) 39)

Resiniferatoxin binding
Vanilloid receptor; Human spinal cord; Human medulla oblongata; Capsaicin; Capsazepine (Acs, G. (23) 185)

Restriction enzyme
Reverse transcription-PCR; Optic nerve; Spinal cord (Oh, Y. (23) 57)

Retained clone
Tau; Alternative splicing; Carboxyl terminus; Molecular diversity; Spliced clone (Sawa, A. (27) 111)

Retina
Rat; In situ hybridization; $GABA_A$ receptor α1 subunit; L-Glutamate decarboxylase; Retinal ganglion cell; Digoxigenin-labeled cRNA (Kosaka, J. (25) 163)

Glutamate-aspartate transporter mRNA; In situ hybridization; Ischemia; Rat (Otori, Y. (27) 310)

Retinal ganglion cell
Regeneration; Immediate early gene; Axotomy; Transcription factor; Peripheral nerve grafting (Robinson, G.A. (24) 43)

Rat; Retina; In situ hybridization; $GABA_A$ receptor α1 subunit; L-Glutamate decarboxylase; Digoxigenin-labeled cRNA (Kosaka, J. (25) 163)

Retinoblastoma
Melatonin; RNA synthesis; Camptothecin; Actinomycin D; *N*-Acetyltransferase; cAMP (Janavs, J.L. (23) 47)

Retinohypothalamic pathway
In situ hybridization; Neurokinin NK_1 receptor; Circadian rhythm (Mick, G. (21) 157)

Retinoic acid
Embryonal carcinoma cell; Neural differentiation; Subtractive hybridization; cDNA (Imai, Y. (24) 313)

Prion protein gene; Amyloid precursor gene; Cadherin; Synaptophysin (Ackerman, S.L. (25) 157)

Gene expression; Initiator element; Thyroid hormone; Glucocorticoid; Dendrite spine (Iñiguez, M.A. (27) 205)

Retrograde degeneration
Basic fibroblast growth factor; Fibroblast growth factor receptor; Brain injury; Somatosensory cortex ablation model; Thalamus (Yuguchi, T. (25) 50)

Retrograde messenger
Nitric oxide synthase; Single-cell PCR; Hippocampus; Long-term potentiation (Chiang, L.W. (27) 183)

Reverse transcriptase-polymerase chain reaction technique
Aromatase; Estrogen synthetase; Neuron; Diencephalon; Culture (Abe-Dohmae, S. (24) 153)

Reverse transcription-PCR
Restriction enzyme; Optic nerve; Spinal cord (Oh, Y. (23) 57)

Reverse-transcription-PCR
Orphan receptor; Nuclear receptor; Transcription; Hippocampus; Gene expression (Peña de Ortiz, S. (23) 277)

Reward
Nicotine; Reinforcement; Dopamine; c-*fos*; NMDA; Dopamine antagonist; Striatum; Nucleus accumbens (Kiba, H. (23) 1)

Ribonuclease protection assay
Central nervous system; Hypothalamus; Hippocampal–amygdala complex; Frontal cerebral cortex; Brainstem; Development (Keiger, C.J. (27) 103)

Riboprobe
Glucose transporter; Ischemia; Brain; Gerbil; In situ hybridization (Gerhart, D.Z. (25) 313)

RNA
Blood–brain barrier; Glucose transporter; Actin; Astrocyte (Boado, R.J. (22) 259)

Cytochrome P450; Sexual differentiation; Gene expression; Estrogen; Sex hormone; Cloning (Shen, P. (24) 227)

Gene regulation; Neoplasia; Cell biology; Glioma (Boado, R.J. (27) 51)

mRNA
In situ hybridization; Motoneuron; Regeneration; Vinblastine (Kobayashi, N. (21) 9)

GABA; Transport; cAMP; Neuron; Glial cell (Gomeza, J. (21) 150)

Vasopressin; c-*fos*; Dehydration; In situ hybridization; Cycloheximide (Ding, J.M. (21) 247)

Fibroblast growth factor receptor; Fibroblast growth factor receptor-4; Rat; Brain; Medial habenular nucleus; Neuron; Gene expression (Itoh, N. (21) 344)

In situ hybridization; Immunohistochemistry; Serotonin; *p*-Chlorophenylalanine; Tryptophan hydroxylase; Gene regulation (Park, D.H. (22) 20)

Opioid receptor; *Xenopus* oocyte; Ca^{2+}-dependent Cl^- channel; Naloxone; DPDPE (Kaneko, S. (22) 69)

Protein phosphatase 2A; Brain; Rat; In situ hybridization (Abe, H. (22) 139)

Adenylyl cyclase; Striatum; Dopamine; Acetylcholine; Calcium (Mons, N. (22) 236)

PC12 cell; Astrocyte; Prion protein; Glial fibrillary acidic protein; Growth factor; Interleukin-6; Mouse (Lazarini, F. (22) 268)

Nitric oxide synthase; Subthalamic nucleus; Striatum; Globus pallidus; In situ hybridization; Human brain; Co-expression (Nisbet, A.P. (22) 329)

Calpain; Calpastatin; Brain; In situ hybridization (Goto, K. (23) 40)

In situ hybridization; Choline acetyltransferase; Aging; Alzheimer's disease; Neurodegeneration (Sugaya, K. (23) 111)

Interleukin-1β; Middle cerebral artery occlusion; Brain ischemia; In situ hybridization (Buttini, M. (23) 126)

Somatostatin; In situ hybridization histochemistry; Pyramidal neuron; Cerebral cortex; Rat (Ong, W.Y. (23) 151)

In situ hybridization; Oligonucleotide; Serotonin receptor; Rat brain (Pompeiano, M. (23) 163)

Growth-associated protein; Cholinergic neuron; Hybridization histochemistry (McKinney, M. (23) 213)

Vasopressin; Vasopressin V_{1a} receptor; In situ hybridization (Szot, P. (24) 1)

Kainate; G_s protein; G_o protein; Hippocampus (Lasoń, W. (24) 65)

GAP-43; Rat brain; Immunocytochemistry; Axotomy; Facial nucleus (Palacios, G. (24) 107)

Vasopressin; Suprachiasmatic nucleus; Circadian rhythm; Supraoptic nucleus; Rat (Cagampang, F.R.A. (24) 179)

Proenkephalin; Brain; In situ hybridization; Blood pressure regulation; Met-enkephalin (Boone Jr., J.B. (24) 320)

NMDA; Hippocampus; Ontogenesis; Glutamate; Neurotoxicity; Gene expression (Riva, M.A. (25) 209)

Glial acidic fibrillary protein; Dentate gyrus; Electroconvulsive seizure (Steward, O. (25) 217)

Hypothalamus; Brain; In situ hybridization; Transcription factor; Zinc finger; Leucine zipper (Honkaniemi, J. (25) 234)

GAP-43; Neuritogenesis; Protein distribution; Cerebellum; In vitro (Przyborski, S.A. (25) 273)

Galanin; Corticosterone; Arcuate nucleus; Paraventricular nucleus; Dorsal raphe (Akabayashi, A. (25) 305)

$GABA_A$ receptor; Cerebral cortex; Development; Downregulation (Baumgartner, B.J. (26) 9)

$GABA_A$ receptor; Benzodiazepine receptor; Downregulation; Flunitrazepam; Cerebellum (Calkin, P.A. (26) 18)

Neurotrophin; Transcriptional regulation; Solution hybridization; Impulse activity; Neural alteration (Elliott, R.C. (26) 81)

$GABA_A$-benzodiazepine receptor complex; Kindled seizure; Hippocampus; Carbamazepine; Receptor autoradiography; Contingent tolerance; In situ hybridization (Clark, M. (26) 309)

Kindling; Thyrotropin-releasing hormone; Enkephalin; Neuropeptide Y; In situ hybridization; Neuropeptide; Amygdala; Hippocampus; Entorhinal cortex; Pyriform cortex; Perirhinal cortex (Rosen, J.B. (27) 71)

NG108-15 cell; δ-Opioid receptor; Solution hybridization; Ethanol; Naloxone; Gene expression (Jenab, S. (27) 95)

Blood pressure; Brain; Stress; Opioid; In situ hybridization (Boone Jr., J.B. (27) 290)

RNA editing
Glutamate receptor; Rat; Human; AMPA; Brain; Polymerase chain reaction (Cha, J.-H.J. (22) 323)

mRNA expression
Human; Contactin; F3; F11; Cell adhesion; Glycosyl phosphatidylinositol; Antibody; cDNA (Reid, R.A. (21) 1)

Substantia nigra; Tyrosine hydroxylase; Dopamine uptake; Immunoautoradiography (Blanchard, V. (22) 29)

Neurotrophin; Alzheimer's disease; Perforant path (Springer, J.E. (23) 135)

$GABA_A$ receptor subunit; Locus coeruleus; In situ hybridization histochemistry (Luque, J.M. (24) 219)

mRNA level
Chronic ethanol treatment; $GABA_A$ receptor; β-Receptor subunit; Polypeptide expression; Upregulation (Mhatre, M. (23) 246)

Stress; Neuropeptide Y; Hypophysectomy; Gene expression; Adrenal (Hiremagalur, B. (27) 138)

RNA-PCR
Dopamine receptor; Receptor expression; Schizophrenia (Roberts, D.A. (25) 173)

RNA polymerase
Transcription; Peripheral nerve regeneration; Sensory ganglion; Axotomy (Wells, M.R. (27) 163)

RNase protection assay
Basic fibroblast growth factor mRNA; Acidic fibroblast growth factor; Nerve growth factor; *trk*A; Rat (Follesa, P. (22) 1)

mRNA stability
Neurofilament expression; Postnatal upregulation; Dorsal root ganglion; Primary culture; Actinomycin (Schwartz, M.L. (27) 215)

RNA synthesis
Melatonin; Retinoblastoma; Camptothecin; Actinomycin D; *N*-Acetyltransferase; cAMP (Janavs, J.L. (23) 47)

mRNA translocation
MAP2; Neurogranin; RC3; Glial fibrillary acidic protein; Myelin basic protein; Dendrite; Oligodendrocyte; Reactive astrocyte (Landry, C.F. (27) 1)

mRNA yields
Nerve growth factor; Inferior frontal gyrus; Phosphorimage analysis; Densitometry; Northern blotting; Dot blotting; Postmortem interval (Jetté, N. (25) 242)

ROMK1
ATP-sensitive K-channel; Rat brain (Kenna, S. (24) 353)

RT-PCR
Brain; Interleukin-1 receptor; Neuron; Quantitative autoradiography; Immunodetection (Parnet, P. (27) 63)

RU28362
Vasopressin; Corticotropin-releasing factor; Adrenalectomy; Aldosterone (Albeck, D.S. (26) 129)

Run-on transcription
Seizure; c-*fos*; c-*jun*; NGFI-A; Neuropeptide Y; Enkephalin; Dynorphin; Hippocampus (Yount, G.L. (21) 219)

S

S-100
Olfactory tissue; Shotgun screening; Tissue specific gene; β-Tubulin; Basic-helix-loop-helix motif; Calcium binding protein (Bettini, E. (23) 285)

S-100β
GAP-43; Casein kinase II; Protein kinase C; Phosphorylation; Calcium; Acylation; Neuromodulin (Lin, L.-H. (25) 292)

Schizophrenia
Dopamine receptor; RNA-PCR; Receptor expression (Roberts, D.A. (25) 173)

Schwann cell
Microglia; Astrocyte; Neurodegenerative lesion; Neurotrophin; LNGFR; Nerve growth factor; Brain-derived neurotrophic factor; Neurotrophin 3 (Junier, M.P. (24) 247)

Ciliary neurotrophic factor; Cloning; Development; Nerve growth factor; PC12 cell (MacLennan, A.J. (25) 251)

Scyliorhinus canicula
Subcommissural organ; Secretory glycoprotein; Biochemistry; Immunocytochemistry; Dogfish (Grondona, J.M. (26) 299)

Secretion
Insulin-like growth factor II; Insulin-like growth factor-binding protein-2; Choroid plexus epithelial cell; Sheep; Gene expression; Cerebrospinal fluid; Brain (Holm, N.R. (21) 67)

Human ciliary neurotrophic factor; Immunolocalization; Pyramidal neurons; Hypoglycemia; Neuroprotection (Negro, A. (21) 124)

Secretory glycoprotein
Subcommissural organ; Biochemistry; Immunocytochemistry; Dogfish; *Scyliorhinus canicula* (Grondona, J.M. (26) 299)

Seizure
c-*fos*; c-*jun*; NGFI-A; Neuropeptide Y; Enkephalin; Dynorphin; Run-on transcription; Hippocampus (Yount, G.L. (21) 219)

Calcium binding protein; Stress protein; Ischemia; Trauma; Gene expression (Lowenstein, D.H. (22) 299)

Kindling; Vasopressin; Neuroendocrine; In situ hybridization; Hypothalamus; Supraoptic nucleus (Greenwood, R.S. (24) 20)

Kindling; Vasopressin; Neuroendocrine; In situ hybridization; Hypothalamus; Supraoptic nucleus; Hippocampus; Olfactory bulb (Greenwood, R.S. (26) 286)

In situ hybridization; Neurotrophic factor; Pilocarpine; Striatum; Dopaminergic system; Hippocampus; Cortex (Schmidt-Kastner, R. (26) 325)

Semiquantitative RT-PCR
Interleukin-1; Interleukin-6; Tumor necrosis factor; Lipopolysaccharide; Brain; Pituitary; Sickness behavior (Layé, S. (27) 157)

Sensitization
Striatum; Cocaine; Fos (Rosen, J.B. (25) 168)

Sensory ganglion
RNA polymerase; Transcription; Peripheral nerve regeneration; Axotomy (Wells, M.R. (27) 163)

Sensory neuron
NGFIA; NGFIB; Nerve growth factor; Transcription factor (Kendall, G. (25) 73)

Septal organ
Vomeronasal organ; Olfactory receptor; Olfactory marker protein; Digoxigenin; Mouse (Kishimoto, J. (23) 33)

Serotonergic neuron
Transgenic mouse; Tryptophan hydroxylase; Pineal gland (Huh, S.O. (24) 145)

Serotonergic stimulation
Anorexia; Hyperinnervation; Mouse mutant; Dysfunctional behavior (Son, J.H. (25) 129)

Serotonin
In situ hybridization; mRNA; Immunohistochemistry; *p*-Chlorophenylalanine; Tryptophan hydroxylase; Gene regulation (Park, D.H. (22) 20)

Synaptic vesicle; Monoamine transporter; Dihydrotetrahydrobenazine; Reserpine; Dopamine; Norepinephrine; Epinephrine (Gonzalez, A.M. (22) 219)

Suprachiasmatic nucleus; Circadian rhythm; Biological clock; Immediate early gene; Brain slice; In situ hybridization (Prosser, R.A. (25) 151)

Astrocyte; Glutamate dehydrogenase; Glutamate metabolism; Glutamine synthetase; Hippocampus; Neuron–glia interaction (Hardin, H. (26) 1)

Receptor; Ligand-gated ion channel; Gene structure; Alternative splicing; Mouse (Werner, P. (26) 233)

Serotonin 5-HT_{1D} binding site
Quantitative receptor autoradiography; Serotonin non-5-$HT_{1A/1B/1C/1D}$ [^{3}H]5-HT binding site; Human brain; Guinea pig brain (Bruinvels, A.T. (21) 19)

Serotonin 5-HT_2 receptor
DOI; LSD; Affinity state; Compartment; Autoradiography (Waeber, C. (24) 199)

Transcription; Gene regulation; Promoter; Repressor; Transgenic animal; Neuronal cell (Toth, M. (27) 315)

Serotonin 5-HT_4 receptor
GR 113808; Human brain (Doménech, T. (21) 176)

Serotonin *N*-acetyltransferase
Melatonin deficiency; Hydroxyindole-*O*-methyltransferase; Recombinant inbred strain; Gene mapping; Circadian rhythm (Goto, M. (21) 349)

Serotonin non-5-$HT_{1A/1B/1C/1D}$ [^{3}H]5-HT binding site
Quantitative receptor autoradiography; Serotonin 5-HT_{1D} binding site; Human brain; Guinea pig brain (Bruinvels, A.T. (21) 19)

Serotonin / norepinephrine interaction
Tyrosine hydroxylase; Locus coeruleus; Neurotoxin; 5,6-Dihydroxytryptamine; Gene expression (Sturtz, F. (22) 107)

Serotonin receptor
In situ hybridization; Oligonucleotide; mRNA; Rat brain (Pompeiano, M. (23) 163)

Sex hormone
Cytochrome P450; Sexual differentiation; Gene expression; RNA; Estrogen; Cloning (Shen, P. (24) 227)

Sexual differentiation
Cytochrome P450; Gene expression; RNA; Estrogen; Sex hormone; Cloning (Shen, P. (24) 227)

sgk
Brain injury; Oligodendrocyte; Differential display; Transcriptional regulation (Imaizumi, K. (26) 189)

Sheep
Insulin-like growth factor II; Insulin-like growth factor-binding protein-2; Choroid plexus epithelial cell; Gene expression; Secretion; Cerebrospinal fluid; Brain (Holm, N.R. (21) 67)

Shotgun screening
Olfactory tissue; Tissue specific gene; β-Tubulin; Basic-helix-loop-helix motif; S-100; Calcium binding protein (Bettini, E. (23) 285)

Sialic acid
Alzheimer's disease; β/A4 Amyloid protein precursor; Neuraminidase; Developmental change; Cerebrospinal fluid; Western blot analysis (Sodeyama, N. (27) 320)

Sickness behavior
Interleukin-1; Interleukin-6; Tumor necrosis factor; Lipopolysaccharide; Brain; Pituitary; Semiquantitative RT-PCR (Layé, S. (27) 157)

Single-cell PCR
Nitric oxide synthase; Hippocampus; Long-term potentiation; Retrograde messenger (Chiang, L.W. (27) 183)

Single-channel current
NMDA receptor channel; cDNA expression; ϵ2 Subunit; ζ1 Subunit; *Xenopus* oocyte; Cation permeability (Tsuzuki, K. (26) 37)

Single-stranded DNA
cAMP response element; DNA binding protein; Mouse cerebellum; Morphine; Chronic treatment (Osugi, T. (21) 256)

Site-directed mutagenesis
Nicotinic acetylcholine receptor; *Torpedo*; Muscle; *Xenopus* oocyte; Desensitization; cAMP-dependent phosphorylation; Gentamicin (Nishizaki, T. (21) 99)

Acetylcholine receptor; *Xenopus* oocyte; Desensitization; Ca^{2+} permeability; cAMP-dependent phosphorylation (Nishizaki, T. (24) 341)

Torpedo acetylcholine receptor; *Xenopus* oocyte; Subunit assembly; Assembly signal (Sumikawa, K. (25) 257)

Skeletal muscle
Immediate early gene; Acetylcholine receptor; Calcium; Intracellular calcium store; Synaptic transmission (Abu-Shakra, S.R. (26) 55)

SK-N-MC
Alzheimer's disease; Amyloid precursor protein; Tetracycline-responsive promoter; Neuroblastoma; Cytotoxicity (Sopher, B.L. (26) 207)

Sleep–waking cycle
Glia; Glutamine synthetase; Glial fibrillary acidic protein; Corticosterone (Sallanon-Moulin, M. (22) 113)

Glutamine synthetase; Modafinil; Corticosterone (Touret, M. (26) 123)

hSlo
Ion channel; Maxi-K channel; BK channel; Cloning (Dworetzky, S.I. (27) 189)

Small intensely fluorescent cell
Acetylcholine; Nicotinic receptor; Receptor mRNA; α_{4-1} Subunit; β_2 Subunit; Superior cervical ganglion; Sympathetic; Rat (Klimaschewski, L. (27) 167)

Sodium channel
Cerebellum; Hippocampus; In situ hybridization; Non-isotope; Spinal cord (Black, J.A. (22) 275)

Sodium channel type I; Sodium channel type II; Sodium channel type III; Brain; Facial nucleus; Motor neuron; Nerve transection; In situ hybridization (Iwahashi, Y. (22) 341)

In situ hybridization; Ion channel; Non-isotope (Black, J.A. (23) 235)

Sodium channel type I
Sodium channel; Sodium channel type II; Sodium channel type III; Brain; Facial nucleus; Motor neuron; Nerve transection; In situ hybridization (Iwahashi, Y. (22) 341)

Sodium channel type II
Sodium channel; Sodium channel type I; Sodium channel type III; Brain; Facial nucleus; Motor neuron; Nerve transection; In situ hybridization (Iwahashi, Y. (22) 341)

Sodium channel type III
Sodium channel; Sodium channel type I; Sodium channel type II; Brain; Facial nucleus; Motor neuron; Nerve transection; In situ hybridization (Iwahashi, Y. (22) 341)

Sodium pump isoform
Immunoblotting; Immunocytochemistry; Granule cell; Astrocyte; Rat brain; Monkey brain (Cameron, R. (21) 333)

Solution hybridization
Neurotrophin; Transcriptional regulation; mRNA; Impulse activity; Neural alteration (Elliott, R.C. (26) 81)

NG108-15 cell; δ-Opioid receptor; mRNA; Ethanol; Naloxone; Gene expression (Jenab, S. (27) 95)

Somatomedin
Axon regeneration; Neurite; Paralysis; Neurotrophic factor (Glazner, G.W. (25) 265)

Somatosensory cortex ablation model
Basic fibroblast growth factor; Fibroblast growth factor receptor; Brain injury; Retrograde degeneration; Thalamus (Yuguchi, T. (25) 50)

Somatostatin
In situ hybridization histochemistry; mRNA; Pyramidal neuron; Cerebral cortex; Rat (Ong, W.Y. (23) 151)

Somatostatin receptor
Clonidine; Yohimbine; Adenylyl cyclase; G protein (López-Sañudo, S. (25) 143)

Somatostatin receptor 2
SSTR2; Isoform; C-terminus; Alternative splicing desensitization; Distribution (Vanetti, M. (27) 45)

Songbird
Immediate early gene; Zebra finch; Canary; c-*jun*; *zif*-268; NGFI-A; Metrazole (Nastiuk, K.L. (27) 299)

SP1
Alzheimer's disease; Amyloid; AP-1; Brain gene regulation; Promotor structure; TFIID (Lukiw, W.J. (22) 121)

Specific binding
Homophthalazine; 2,3-Benzodiazepine; Autoradiography; Basal ganglia; Anxiolytic drug (Horváth, E.J. (22) 211)

Spinal cord
Substance P receptor; Naltrexone; Inositol 1,4,5-trisphosphate; Inositol 1,4,5-trisphosphate receptor (Igwe, O.J. (21) 263)

Cerebellum; Hippocampus; In situ hybridization; Non-isotope; Sodium channel (Black, J.A. (22) 275)

Reverse transcription-PCR; Restriction enzyme; Optic nerve (Oh, Y. (23) 57)

Glutamic acid decarboxylase; Monoarthritis; Chronic inflammation; Pain; GABA; In situ hybridization; Rat (Castro-Lopes, J.M. (26) 169)

Spliced clone
Tau; Alternative splicing; Carboxyl terminus; Molecular diversity; Retained clone (Sawa, A. (27) 111)

SSTR2
Somatostatin receptor 2; Isoform; C-terminus; Alternative splicing desensitization; Distribution (Vanetti, M. (27) 45)

Stimulant
Gene regulation; Dopamine receptor; Enkephalin; Tyrosine hydroxylase; Cholecystokinin; Dopamine transporter; In situ hybridization (De Bartolomeis, A. (21) 321)

Stress
Neuropeptide Y; Hypophysectomy; mRNA level; Gene expression; Adrenal (Hiremagalur, B. (27) 138)

mRNA; Blood pressure; Brain; Opioid; In situ hybridization (Boone Jr., J.B. (27) 290)

Stress protein
Calcium binding protein; Seizure; Ischemia; Trauma; Gene expression (Lowenstein, D.H. (22) 299)

Ischemia; Gerbil; c-*fos*; hsp70; Heat shock; Hippocampus (Ikeda, J. (26) 249)

Striatal interneuron
Rat; In situ hybridization; Gene expression; Caudate-putamen; Co-expression; Striatopallidal (Augood, S.J. (22) 204)

Striatal neuron
Adenylate cyclase; Dopamine; Calcium ionophore A23187; Protein kinase C; Phorbol myristate acetate (Schinelli, S. (21) 162)

Striatopallidal
Rat; In situ hybridization; Gene expression; Caudate-putamen; Co-expression; Striatal interneuron (Augood, S.J. (22) 204)

Striatum
Adenylyl cyclase; Dopamine; Acetylcholine; Calcium; mRNA (Mons, N. (22) 236)

Nitric oxide synthase; Subthalamic nucleus; Globus pallidus; mRNA; In situ hybridization; Human brain; Co-expression (Nisbet, A.P. (22) 329)

Nicotine; Reward; Reinforcement; Dopamine; c-*fos*; NMDA; Dopamine antagonist; Nucleus accumbens (Kiba, H. (23) 1)

Dopamine receptor; NMDA receptor; MK-801; Opioid peptide; Immediate-early gene; Transcription factor; Gene regulation (Bronstein, D.M. (23) 191)

Sensitization; Cocaine; Fos (Rosen, J.B. (25) 168)

Dopamine D_1 receptor; Dopamine D_2 receptor; 6-Hydroxydopamine lesion; In vitro receptor autoradiography; In situ hybridization (Jongen-Rêlo, A.L. (25) 333)

Psychostimulant; Catecholamine re-uptake blocker; c-*fos*; *NGFI-A* (zif268); Gene expression; Withdrawal (Ennulat, D.J. (26) 106)

In situ hybridization; Neurotrophic factor; Pilocarpine; Seizure; Dopaminergic system; Hippocampus; Cortex (Schmidt-Kastner, R. (26) 325)

Stroke
Intercellular adhesion molecule 1; Focal brain ischemia; Reperfusion; Inflammation (Wang, X. (26) 61)

Subcommissural organ
Secretory glycoprotein; Biochemistry; Immunocytochemistry; Dogfish; *Scyliorhinus canicula* (Grondona, J.M. (26) 299)

Substance P
Brain-derived neurotrophic factor; Calcitonin gene-related peptide; Diabetes mellitus; Diabetic neuropathy; Nerve growth factor (Diemel, L.T. (21) 171)

Activator protein-1; Calcitonin gene-related peptide; Immediate-early gene; Nitric oxide; Nociception; Transcription (Herdegen, T. (22) 245)

Mesencephalic trigeminal nucleus; Neuropeptide Y; Galanin; Vasoactive intestinal polypeptide; Masseteric nerve; Nerve transection (Umemoto, S. (23) 93)

Substance P receptor
Naltrexone; Spinal cord; Inositol 1,4,5-trisphosphate; Inositol 1,4,5-trisphosphate receptor (Igwe, O.J. (21) 263)

Substantia nigra
Tyrosine hydroxylase; Dopamine uptake; mRNA expression; Immunoautoradiography (Blanchard, V. (22) 29)

Calretinin mRNA; Rat brain; Calcium appetite; Ventral tegmental area; Lysate RNase protection assay; Tyrosine hydroxylase mRNA (Strauss, K.I. (25) 140)

cDNA; Cerebellum; Granule cell; Human; Hippocampal formation; In situ hybridization; Mouse; Olfactory bulb (Kambouris, M. (25) 192)

Subthalamic nucleus
Nitric oxide synthase; Striatum; Globus pallidus; mRNA; In situ hybridization; Human brain; Co-expression (Nisbet, A.P. (22) 329)

Subtractive hybridization
Embryonal carcinoma cell; Retinoic acid; Neural differentiation; cDNA (Imai, Y. (24) 313)

Subtype
α_2 Adrenoceptor; Northern blot; In situ hybridization; Presynaptic receptor; Sympathetic (Vidovic, M. (22) 49)

θ Subtype
14-3-3 Protein; ζ Subtype; cDNA cloning; In situ hybridization; Brain; Development; Rat (Watanabe, M. (25) 113)

ζ Subtype
14-3-3 Protein; θ Subtype; cDNA cloning; In situ hybridization; Brain; Development; Rat (Watanabe, M. (25) 113)

α Subunit
G_i protein; cDNA library; Molecular cloning; Immunohistochemistry; Affinity-purified antibody; Cochlea; Inner hair cell; Outer hair cell (Tachibana, M. (21) 355)

α1 Subunit
$GABA_A$ receptor; α6 Subunit; β2 Subunit; WSR mouse; WSP mouse; Ethanol; Northern blot analysis (Keir, W.J. (25) 200)

α6 Subunit
$GABA_A$ receptor; α1 Subunit; β2 Subunit; WSR mouse; WSP mouse; Ethanol; Northern blot analysis (Keir, W.J. (25) 200)

α_{4-1} Subunit
Acetylcholine; Nicotinic receptor; Receptor mRNA; β_2 Subunit; Superior cervical ganglion; Small intensely fluorescent cell; Sympathetic; Rat (Klimaschewski, L. (27) 167)

β2 Subunit
$GABA_A$ receptor; α1 Subunit; α6 Subunit; WSR mouse; WSP mouse; Ethanol; Northern blot analysis (Keir, W.J. (25) 200)

β_2 Subunit
Acetylcholine; Nicotinic receptor; Receptor mRNA; α_{4-1} Subunit; Superior cervical ganglion; Small intensely fluorescent cell; Sympathetic; Rat (Klimaschewski, L. (27) 167)

ϵ2 Subunit
NMDA receptor channel; cDNA expression; ζ1 Subunit; *Xenopus* oocyte; Single-channel current; Cation permeability (Tsuzuki, K. (26) 37)

γ1 Subunit
GABA; $GABA_A$ receptor; γ2 Subunit; Coexpression; Trigeminal ganglion; Primary afferent system (Kondo, E. (21) 363)

γ2 Subunit
GABA; $GABA_A$ receptor; γ1 Subunit; Coexpression; Trigeminal ganglion; Primary afferent system (Kondo, E. (21) 363)

γ_2 Subunit
GABA receptor; Benzodiazepine receptor; Antibody; Rat brain; In situ hybridization; Ethanol (Miralles, C.P. (24) 129)

ζ1 Subunit
NMDA receptor channel; cDNA expression; ϵ2 Subunit; *Xenopus* oocyte; Single-channel current; Cation permeability (Tsuzuki, K. (26) 37)

Subunit assembly
Torpedo acetylcholine receptor; *Xenopus* oocyte; Site-directed mutagenesis; Assembly signal (Sumikawa, K. (25) 257)

α-Subunit mRNA
$GABA_A$ receptor; Down-regulation; α-Subunit polypeptide; Cortical neuron (Mhatre, M.C. (24) 159)

α-Subunit polypeptide
$GABA_A$ receptor; Down-regulation; α-Subunit mRNA; Cortical neuron (Mhatre, M.C. (24) 159)

Subunit specific antibody
$GABA_A$ receptor complex; Benzodiazepine binding site, Type I; Zolpidem binding; Immunoprecipitation; Cortex; Hippocampus (Ruano, D. (25) 225)

Sulpiride
Haloperidol; Dopamine receptor; In situ hybridization; Northern blot; Rat brain (Jaber, M. (23) 14)

Superior cervical ganglion
Acetylcholine; Nicotinic receptor; Receptor mRNA; α_{4-1} Subunit; β_2 Subunit; Small intensely fluorescent cell; Sympathetic; Rat (Klimaschewski, L. (27) 167)

Supersensitivity
Calmodulin; Myosin light chain kinase; Biotinylated calmodulin; Translocation; Basal ganglia; Amphetamine; Antipsychotic drug (Gnegy, M.E. (27) 195)

Suprachiasmatic nucleus
Vasopressin; mRNA; Circadian rhythm; Supraoptic nucleus; Rat (Cagampang, F.R.A. (24) 179)

Circadian rhythm; Biological clock; Serotonin; Immediate early gene; Brain slice; In situ hybridization (Prosser, R.A. (25) 151)

Circadian rhythm; mp41; c-*fos* (Ishida, N. (26) 197)

Vasopressin; Vasoactive intestinal peptide; Corticotrophin-releasing factor; Glucocorticoid; Corticosterone; Dexamethasone; Paraventricular nucleus; In situ hybridization histochemistry; Rat (Larsen, P.J. (27) 342)

Supraoptic nucleus
Vasopressin; Oxytocin; Paraventricular nucleus; Arcuate nucleus (Petrov, T. (22) 333)

Kindling; Seizure; Vasopressin; Neuroendocrine; In situ hybridization; Hypothalamus (Greenwood, R.S. (24) 20)

Vasopressin; mRNA; Suprachiasmatic nucleus; Circadian rhythm; Rat (Cagampang, F.R.A. (24) 179)

Kindling; Seizure; Vasopressin; Neuroendocrine; In situ hybridization; Hypothalamus; Hippocampus; Olfactory bulb (Greenwood, R.S. (26) 286)

hSVAT
MPP^+ toxicity; Amine transporter; MPTP (Liu, L. (25) 90)

Sympathetic
α_2 Adrenoceptor; Subtype; Northern blot; In situ hybridization; Presynaptic receptor (Vidovic, M. (22) 49)

Acetylcholine; Nicotinic receptor; Receptor mRNA; α_{4-1} Subunit; β_2 Subunit; Superior cervical ganglion; Small intensely fluorescent cell; Rat (Klimaschewski, L. (27) 167)

Synaptic loss
Human brain; Temporal cortex; Primary motor cortex; Northern blot; Oxidative metabolism; Alzheimer's disease (Chandrasekaran, K. (24) 336)

Synaptic plasma membrane
Ethanol; Alcohol; Alcoholism; Calmodulin; Membrane fluidity (Iqbal, Z. (27) 333)

Synaptic plasticity
Glial S100b; Protein F1/GAP43; Protein kinase C; Alzheimer's disease; Down's syndrome (Sheu, F.-S. (21) 62)

Synaptic transmission
Skeletal muscle; Immediate early gene; Acetylcholine receptor; Calcium; Intracellular calcium store (Abu-Shakra, S.R. (26) 55)

Synaptic vesicle
Monoamine transporter; Dihydrotetrahydrobenazine; Reserpine; Serotonin; Dopamine; Norepinephrine; Epinephrine (Gonzalez, A.M. (22) 219)

Synaptophysin
Prion protein gene; Amyloid precursor gene; Cadherin; Retinoic acid (Ackerman, S.L. (25) 157)

Synaptosomal solubilization
Forebrain-enriched; Postsynaptic; Cytosolic protein (Watson, J.B. (27) 323)

T

Tardive dyskinesia
Antipsychotic; Fos; Fos-related antigen; FosB; c-Jun; JunB; JunD; Krox24; Drug screening (MacGibbon, G.A. (23) 21)

Taste transduction
Human circumvallate papillae; Human foliate papillae; Immunohistochemistry; Confocal laser scanning microscopy (Takami, S. (22) 193)

Tau
Alternative splicing; Carboxyl terminus; Molecular diversity; Retained clone; Spliced clone (Sawa, A. (27) 111)

Temporal cortex
Human brain; Primary motor cortex; Northern blot; Oxidative metabolism; Alzheimer's disease; Synaptic loss (Chandrasekaran, K. (24) 336)

Tetracycline-responsive promoter
Alzheimer's disease; Amyloid precursor protein; Neuroblastoma; SK-N-MC; Cytotoxicity (Sopher, B.L. (26) 207)

TFIID
Alzheimer's disease; Amyloid; AP-1; Brain gene regulation; Promotor structure; SP1 (Lukiw, W.J. (22) 121)

Thalamus
Basic fibroblast growth factor; Fibroblast growth factor receptor; Brain injury; Somatosensory cortex ablation model; Retrograde degeneration (Yuguchi, T. (25) 50)

Three-dimensional structure
Dopamine; Transporter; Cocaine; Molecular modeling; Molecular dynamics; Electrostatic potential (Edvardsen, Ø. (27) 265)

Thy-1
Transgenic mouse; Fusion gene; Northern analysis; β-Galactosidase; Regulatory element (Kelley, K.A. (24) 261)

Thyroid hormone
Human choline acetyltransferase; 5′ Regulatory sequence; Gene regulation; CAT assay; NE1-115 cell; NG108-15 cell (Quirin-Stricker, C. (23) 253)

Gene expression; Initiator element; Glucocorticoid; Retinoic acid; Dendrite spine (Iñiguez, M.A. (27) 205)

Thyrotropin-releasing hormone
Paraventricular nucleus; Ethanol; In situ hybridization histochemistry; Transcription factor; Corticotropin-releasing hormone (Zoeller, R.T. (24) 185)

Kindling; Enkephalin; Neuropeptide Y; In situ hybridization; mRNA; Neuropeptide; Amygdala; Hippocampus; Entorhinal cortex; Pyriform cortex; Perirhinal cortex (Rosen, J.B. (27) 71)

Tissue specific gene
Olfactory tissue; Shotgun screening; β-Tubulin; Basic-helix-loop-helix motif; S-100; Calcium binding protein (Bettini, E. (23) 285)

Torpedo
Nicotinic acetylcholine receptor; Muscle; *Xenopus* oocyte; Desensitization; Site-directed mutagenesis; cAMP-dependent phosphorylation; Gentamicin (Nishizaki, T. (21) 99)

***Torpedo* acetylcholine receptor**
Xenopus oocyte; Subunit assembly; Site-directed mutagenesis; Assembly signal (Sumikawa, K. (25) 257)

Transcription
Activator protein-1; Calcitonin gene-related peptide; Immediate-early gene; Nitric oxide; Nociception; Substance P (Herdegen, T. (22) 245)

Orphan receptor; Nuclear receptor; Hippocampus; Reverse-transcription-PCR; Gene expression (Peña de Ortiz, S. (23) 277)

Nerve growth factor; Repressor; Fibroblast (Cowie, A. (27) 58)

RNA polymerase; Peripheral nerve regeneration; Sensory ganglion; Axotomy (Wells, M.R. (27) 163)

Serotonin 5-HT_2 receptor; Gene regulation; Promoter; Repressor; Transgenic animal; Neuronal cell (Toth, M. (27) 315)

Transcriptional regulation
Neurotrophin; mRNA; Solution hybridization; Impulse activity; Neural alteration (Elliott, R.C. (26) 81)

sgk; Brain injury; Oligodendrocyte; Differential display (Imaizumi, K. (26) 189)

Transcription factor
Rat; Transplantation; Immunocytochemistry; Epileptic seizure; Fos; Jun; Krox (Bele, S. (22) 9)

GATA; Neural development; Optic tectum (Kornhauser, J.M. (23) 100)

Dopamine receptor; NMDA receptor; MK-801; Opioid peptide; Immediate-early gene; Gene regulation; Striatum (Bronstein, D.M. (23) 191)

Retinal ganglion cell; Regeneration; Immediate early gene; Axotomy; Peripheral nerve grafting (Robinson, G.A. (24) 43)

Proto-oncogene; Tyrosine kinase; Phosphotyrosine; Dynorphin (Gu, J. (24) 77)

Pilocarpine; Proto-oncogene; Learning; Memory; Long-term potentiation; Kindling (Hughes, P. (24) 166)

Paraventricular nucleus; Ethanol; In situ hybridization histochemistry; Thyrotropin-releasing hormone; Corticotropin-releasing hormone (Zoeller, R.T. (24) 185)

NGFIA; NGFIB; Sensory neuron; Nerve growth factor (Kendall, G. (25) 73)

c-*fos*; Hippocampus; Enkephalin; Immediate early gene; Glutamate (Johnston, H.M. (25) 147)

Hypothalamus; Brain; mRNA; In situ hybridization; Zinc finger; Leucine zipper (Honkaniemi, J. (25) 234)

Transcription initiation site
B-50/GAP-43; Luciferase; Transient transfection; Promoter activity; PC12 cell; P19-EC cell (Eggen, B.J.L. (23) 221)

Transcription regulation
Brain-derived neurotrophic factor; Neurotrophic; Neuroprotective; Promoter; Basal ganglia (Bishop, J.F. (26) 225)

Transforming growth factor α
Epidermal growth factor; Brain; Cerebral cortex; Hemidecortication; Neostriatum; Ontogeny; Plasticity; In situ hybridization (Kornblum, H.I. (21) 107)

Transgenesis
Delivery system; Development; Gene expression; Nerve growth factor; Post-transcriptional regulation (Onténiente, B. (21) 225)

Transgenic animal
Serotonin 5-HT_2 receptor; Transcription; Gene regulation; Promoter; Repressor; Neuronal cell (Toth, M. (27) 315)

Transgenic mouse
Tyrosine hydroxylase; Human growth hormone; Cell-type specificity; Gene regulation; Dwarfism (Banerjee, S.A. (24) 89)

Tryptophan hydroxylase; Serotonergic neuron; Pineal gland (Huh, S.O. (24) 145)

Thy-1; Fusion gene; Northern analysis; β-Galactosidase; Regulatory element (Kelley, K.A. (24) 261)

Neurofilament; Neuronal expression; Gene regulation; Intermediate filament (Côté, F. (26) 99)

Neuron-specific transgene expression; Neurofilament subunit M gene; Enhancer trap (Elder, G.A. (26) 177)

Transient expression
Opioid receptor; Rat brain; cDNA cloning; Transmembrane protein; In situ hybridization (Wick, M.J. (27) 37)

Transient forebrain ischemia
Interleukin-1β; In situ hybridization; Rat (Yabuuchi, K. (26) 135)

Transient transfection
B-50/GAP-43; Transcription initiation site; Luciferase; Promoter activity; PC12 cell; P19-EC cell (Eggen, B.J.L. (23) 221)

Translocation
Calmodulin; Myosin light chain kinase; Biotinylated calmodulin; Basal ganglia; Supersensitivity; Amphetamine; Antipsychotic drug (Gnegy, M.E. (27) 195)

Transmembrane protein
Opioid receptor; Rat brain; cDNA cloning; Transient expression; In situ hybridization (Wick, M.J. (27) 37)

Transplantation
Rat; Immunocytochemistry; Epileptic seizure; Transcription factor; Fos; Jun; Krox (Bele, S. (22) 9)

Transport
GABA; mRNA; cAMP; Neuron; Glial cell (Gomeza, J. (21) 150)

Transporter
Dopamine; Cocaine; Three-dimensional structure; Molecular modeling; Molecular dynamics; Electrostatic potential (Edvardsen, Ø. (27) 265)

Transporter regulation
Dopamine transporter; Dopamine uptake; Gene expression; Cocaine (Cerruti, C. (22) 132)

Trauma
Calcium binding protein; Stress protein; Seizure; Ischemia; Gene expression (Lowenstein, D.H. (22) 299)

Tricyclic antidepressant
Desipramine; Clonidine; Norepinephrine transporter; α_2-Adrenoreceptor; Yohimbine; Locus ceruleus (Shores, M.M. (27) 337)

Trigeminal ganglion
GABA; $GABA_A$ receptor; $\gamma 1$ Subunit; $\gamma 2$ Subunit; Coexpression; Primary afferent system (Kondo, E. (21) 363)

trk
p75LNGFR; Low-affinity nerve growth factor receptor; NT-3; Neurotrophin-3; BDNF; Brain-derived nerve factor; Hypothyroidism (Alvarez-Dolado, M. (27) 249)

***trk*A**
Basic fibroblast growth factor mRNA; Acidic fibroblast growth factor; Nerve growth factor; Rat; RNase protection assay (Follesa, P. (22) 1)

trkB
Glucocorticoid; Hippocampus; GAP-43; BDNF; Neurotrophin-3; trkC; Basic fibroblast growth factor (Chao, H.M. (26) 271)

trkC
Glucocorticoid; Hippocampus; GAP-43; BDNF; Neurotrophin-3; trkB; Basic fibroblast growth factor (Chao, H.M. (26) 271)

Trophic factor
Hippocampus; Cortex; Fibroblast growth factor; In situ hybridization; Gene expression; Epilepsy (Gall, C.M. (21) 190)

Tryptophan hydroxylase
In situ hybridization; mRNA; Immunohistochemistry; Serotonin; *p*-Chlorophenylalanine; Gene regulation (Park, D.H. (22) 20)

Transgenic mouse; Serotonergic neuron; Pineal gland (Huh, S.O. (24) 145)

β-Tubulin
Olfactory tissue; Shotgun screening; Tissue specific gene; Basic-helix-loop-helix motif; S-100; Calcium binding protein (Bettini, E. (23) 285)

Tumor necrosis factor
Interleukin-1; Interleukin-6; Lipopolysaccharide; Brain; Pituitary; Semiquantitative RT-PCR; Sickness behavior (Layé, S. (27) 157)

Two-dimensional gel electrophoresis
Glucocorticoid; In vitro translation; Cycloheximide; Glutamine synthetase; Glucocortin; Glial fibrillary acidic protein (O'Banion, M.K. (22) 57)

Type 1 astrocyte
c-Fos; Glutamate; Glia; NGFI-A; Optic nerve (Mack, K.J. (23) 73)

Tyrosine hydroxylase
Stimulant; Gene regulation; Dopamine receptor; Enkephalin; Cholecystokinin; Dopamine transporter; In situ hybridization (De Bartolomeis, A. (21) 321)

Substantia nigra; Dopamine uptake; mRNA expression; Immunoautoradiography (Blanchard, V. (22) 29)

Locus coeruleus; Serotonin/norepinephrine interaction; Neurotoxin; 5,6-Dihydroxytryptamine; Gene expression (Sturtz, F. (22) 107)

Gene regulation; Depolarization; Adrenal medulla (Stachowiak, M.K. (22) 309)

Hypothalamo-neurohypophysial system; Axonal transport of mRNA (Skutella, T. (23) 179)

Transgenic mouse; Human growth hormone; Cell-type specificity; Gene regulation; Dwarfism (Banerjee, S.A. (24) 89)

Tyrosine hydroxylase mRNA
Morphine; Dopamine neuron; Hypothalamus; Preoptic DOPAC; Dialysis (Molnar, J. (22) 97)

Calretinin mRNA; Rat brain; Calcium appetite; Substantia nigra; Ventral tegmental area; Lysate RNase protection assay (Strauss, K.I. (25) 140)

Tyrosine kinase
Neurotrophin; Glia; Phosphorylation; Glycosylation; Autocrine (Zanellato, A. (23) 299)

Transcription factor; Proto-oncogene; Phosphotyrosine; Dynorphin (Gu, J. (24) 77)

U

U50488H
κ-Opioid receptor; Adenylyl cyclase; Phospholipase C; *Xenopus* oocyte; cAMP; Ca^{2+} (Kaneko, S. (27) 258)

Upregulation
Chronic ethanol treatment; $GABA_A$ receptor; β-Receptor subunit; mRNA level; Polypeptide expression (Mhatre, M. (23) 246)

V

Vagal preganglionic neuron
μ Opioid receptor; Vagotomy; In situ hybridization; Rat (Houtani, T. (24) 347)

Vagotomy
μ Opioid receptor; Vagal preganglionic neuron; In situ hybridization; Rat (Houtani, T. (24) 347)

Vagus nerve
Calcitonin gene-related peptide mRNA; In situ hybridization histochemistry; Neuronal plasticity; Glossopharyngeal nerve; Neuropeptide; Rat (Huang, F.-L. (22) 290)

Vanilloid receptor
Human spinal cord; Human medulla oblongata; Resiniferatoxin binding; Capsaicin; Capsazepine (Acs, G. (23) 185)

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BRAIN RESEARCH

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